



951 TCCCTTAAGT TTTCCCTTAGCTAACTGGAA AGATGTCGAG CGGCTCGCTC
AGGGAATTCA AACTGCGGAGC CATTGACCTT TCTACAGCTC GCCGAGCGAG

1001 ACAACCAGTC GGTAGATGTC AAGAAGAGAC GTTGGGTTAC CTTCTGCTCT
TGTTGGTCAG CCATCTACAG TTCTTCTCTG CAACCCAATG GAAGACGAGA

1051 GCAGAAATGGC CAACCTTTAA CGTCGGATGG CCGCGAGACG GCACCTTTAA
CGTCTTACCG GTTGGAAATT GCAGCCTACC GGCCTCTGC CGTGGAAATT

1101 CCGAGACCTC ATCACCCAGG TTAAGATCAA GGTCTTTTCA CCTGGCCCGC
GGCTCTGGAG TAGTGGGTCC AATTCTAGTT CCAGAAAAGT GGACCGGGCG

1151 ATGGACACCC AGACCAGGTC CCCTACATCG TGACCTGGGA AGCCTTGGCT
TACCTGTGGG TCTGGTCCAG GGGATGTAGC ACTGGACCCT TCGGAACCGA

1201 TTTGACCCCC CTCCCTGGGT CAAGCCCTTT GTACACCCTA AGCCTCCGCC
AAACTGGGGG GAGGGACCCA GTTCGGGAAA CATGTGGGAT TCGGAGGCGG

1251 TCCTCTTCCT CCATCCGCCC CGTCTCTCCC CTTGAACCT CCTCGTTCGA
AGGAGAAGGA GGTAGGCGGG GCAGAGAGGG GGAACCTGGA GGAGCAAGCT

1301 CCGCGCTCG ATCCTCCCTT TATCCAGCCC TCACTCCTTC TCTAGGCGCC
GGGCGGAGC TAGGAGGGAA ATAGGTCGGG AGTGAGGAAG AGATCCGCGG

1351 GGCCGCTCTA GCCCATTAAT ACGACTCACT ATAGGGCGAT TCGAATCAGG
CCGGCGAGAT CGGGTAATTA TGCTGAGTGA TATCCCGCTA AGCTTAGTCC

1401 CCTTGGCGCG CCGGATCCTT AATTAAGCGC AATTGGGAGG TGGCGGTAGC
GGAACCGCGC GGCCTAGGAA TTAATTCGCG TTAACCCTCC ACCGCCATCG

+2 M G V I T D S L A V V A R T D
]-----

1451 CTCGAGATGG GCGTGATTAC GGATTCACTG GCCGTCGTGG CCCGCACCGA
GAGCTCTACC CGCACTAATG CCTAAGTGAC CGGCAGCACC GGGCGTGGCT

+2 R P S Q Q L R S L N G E W R F A

1501 TCGCCCTTCC CAACAGTTAC GCAGCCTGAA TGGCGAATGG CGCTTTGCCT
AGCGGGAAGG GTTGTCATATG CGTCGGACTT ACCGCTTACC GCGAAACGGA

+2 W F P A P E A V P E S W L E C D L

1551 GGTTCCTCGGC ACCAGAAGCG GTGCCGGAAA GCTGGCTGGA GTGCGATCTT
CCAAAGGCCG TGGTCTTCGC CACGGCCTTT CGACCGACCT CACGCTAGAA

+2 P E A D T V V V P S N W Q M H G Y

1601 CCTGAGGCCG ATACTGTCGT CGTCCCCTCA AACTGGCAGA TGCACGGTTA
GGACTCCGGC TATGACAGCA GCAGGGGAGT TTGACCGTCT ACGTGCCAAT

+2 D A P I Y T N V T Y P I T V N P

1651 CGATGCGCCC ATCTACACCA ACGTGACCTA TCCATTACG GTCAATCCGC
GCTACGCGGG TAGATGTGGT TGCCTGGAT AGGGTAATGC CAGTTAGGCG

FIG. 10C

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TECH CENTER 1600/2900



+2 P F V P P T G C Y S L T F N
1701 CGTTTGTTC CACGGAGAAT CCGACGGGTT GTTACTCGCT CACATTTAAT
GCAAACAAGG GTGCCTCTTA GGCTGCCCAA CAATGAGCGA GTGTAAATTA

+2 V D E S W L Q E G Q T R I I F D G
1751 GTTGATGAAA GCTGGCTACA GGAAGGCCAG ACGCGAATTA TTTTGTATGG
CAACTACTTT CGACCGATGT CCTTCCGGTC TGCGCTTAAT AAAAATACC

+2 V N S A F H L W C N G R W V G Y
1801 CGTTAACTCG GCGTTTCATC TGTGGTGCAA CGGGCGCTGG GTCGGTTACG
GCAATTGAGC CGCAAAGTAG ACACCACGTT GCCCGCGACC CAGCCAATGC

+2 G Q D S R L P S E F D L S A F L R
1851 GCCAGGACAG TCGTTTGCCG TCTGAATTTG ACCTGAGCGC ATTTTACGC
CGGTCCTGTC AGCAAACGGC AGACTTAAAC TGGACTCGCG TAAAAATGCG

+2 A G E N R L A V M V L R W S D G S
1901 GCCGGAGAAA ACCGCCTCGC GGTGATGGTG CTGCGCTGGA GTGACGGCAG
CGGCCTCTTT TGGCGGAGCG CCACTACCAC GACGCGACCT CACTGCCGTC

+2 Y L E D Q D M W R M S G I F R D
1951 TTATCTGGAA GATCAGGATA TGTGGCGGAT GAGCGGCATT TTCCGTGACG
AATAGACCTT CTAGTCCTAT ACACCGCCTA CTCGCCGTAA AAGGCACTGC

+2 V S L L H K P T T Q I S D F H V A
2001 TCTCGTTGCT GCATAAACCG ACTACACAAA TCAGCGATT CCATGTTGCC
AGAGCAACGA CGTATTTGGC TGATGTGTTT AGTCGCTAAA GGTACAACGG

+2 T R F N D D F S R A V L E A E V Q
2051 ACTCGCTTTA ATGATGATTT CAGCCGCGCT GTACTGGAGG CTGAAGTTCA
TGAGCGAAAT TACTACTAAA GTCGGCGCGA CATGACCTCC GACTTCAAGT

+2 M C G E L R D Y L R V T V S L W
2101 GATGTGCGGC GAGTTGCGTG ACTACCTACG GGTAACAGTT TCTTTATGGC
CTACACGCCG CTCAACGCAC TGATGGATGC CCATTGTCAA AGAAATACCG

+2 Q G E T Q V A S G T A P F G G E I
2151 AGGGTGAAAC GCAGGTCGCC AGCGGCACCG CGCCTTTTCGG CGGTGAAATT
TCCCACTTTG CGTCCAGCGG TCGCCGTGGC GCGGAAAGCC GCCACTTTAA

+2 I D E R G G Y A D R V T L R L N V
2201 ATCGATGAGC GTGGTGGTTA TGCCGATCGC GTCACACTAC GTCTGAACGT
TAGCTACTCG CACCACCAAT ACGGCTAGCG CAGTGTGATG CAGACTTGCA

+2 E N P K L W S A E I P N L Y R A
2251 CGAAAACCCG AACTGTGGA GCGCCGAAAT CCCGAATCTC TATCGTGCGG
GCTTTTGGGC TTTGACACCT CGCGGCTTTA GGGCTTAGAG ATAGCACGCC

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FIG. 10 D

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+2 V V E L R T A G T L I E A E A C
2301 TGGTTGAACT GCACACCGCC GACGGCACGC TGATTGAAGC AGAAGCCTGC
ACCAACTTGA CGTGTGGCGG CTGCCGTGCG ACTAACTTCG TCTTCGGACG

+2 D V G F R E V R I E N G L L L L N
2351 GATGTCGGTT TCCGCGAGGT GCGGATTGAA AATGGTCTGC TGCTGCTGAA
CTACAGCCAA AGGCGCTCCA CGCCTAACTT TTACCAGACG ACGACGACTT

+2 G K P L L I R G V N R H E H H P
2401 CGGCAAGCCG TTGCTGATTC GAGGCGTTAA CCGTCACGAG CATCATCCTC
GCCGTTCCGGC AACGACTAAG CTCCGCAATT GGCAGTGCTC GTAGTAGGAG

+2 L H G Q V M D E Q T M V Q D I L L
2451 TGCATGGTCA GGTCATGGAT GAGCAGACGA TGGTGCAGGA TATCCTGCTG
ACGTACCAGT CCAGTACCTA CTCGTCTGCT ACCACGTCCT ATAGGACGAC

+2 M K Q N N F N A V R C S H Y P N H
2501 ATGAAGCAGA ACAACTTTAA CGCCGTGCGC TGTTTCGCATT ATCCGAACCA
TACTTCGTCT TGTTGAAATT GCGGCACGCG ACAAGCGTAA TAGGCTTGGT

+2 P L W Y T L C D R Y G L Y V V D
2551 TCCGCTGTGG TACACGCTGT GCGACCGCTA CGGCCTGTAT GTGGTGGATG
AGGCGACACC ATGTGCGACA CGCTGGCGAT GCCGGACATA CACCACCTAC

+2 E A N I E T H G M V P M N R L T D
2601 AAGCCAATAT TGAAACCCAC GGCATGGTGC CAATGAATCG TCTGACCGAT
TTCGGTTATA ACTTTGGGTG CCGTACCACG GTTACTTAGC AGACTGGCTA

+2 D P R W L P A M S E R V T R M V Q
2651 GATCCGCGCT GGCTACCGGC GATGAGCGAA CGCGTAACGC GAATGGTGCA
CTAGGCGCGA CCGATGGCCG CTA CTGCTT GCGCATTGCG CTTACCACGT

+2 R D R N H P S V I I W S L G N E
2701 GCGCGATCGT AATCACCCGA GTGTGATCAT CTGGTCGCTG GGGAATGAAT
CGCGCTAGCA TTAGTGGGCT CACACTAGTA GACCAGCGAC CCCTTACTTA

+2 S G H G A N H D A L Y R W I K S V
2751 CAGGCCACGG CGCTAATCAC GACGCGCTGT ATCGCTGGAT CAAATCTGTC
GTCCGGTGCC GCGATTAGTG CTGCGCGACA TAGCGACCTA GTTTAGACAG

+2 D P S R P V Q Y E G G G A D T T A
2801 GATCCTTCCC GCCCGGTGCA GTATGAAGGC GGCGGAGCCG ACACCACGGC
CTAGGAAGGG CGGGCCACGT CATACTTCCG CCGCCTCGGC TGTGGTGCCG

+2 T D I I C P M Y A R V D E D Q P
2851 CACCGATATT ATTTGCCCGA TGTACGCGCG CGTGGATGAA GACCAGCCCT
GTGGCTATAA TAAACGGGCT ACATGCGCGC GCACCTACTT CTGGTCGGGA

FIG. 10E

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TECH CENTER 1600/2900



+2 F P A V P I K K W L S L P G
2901 TCCCGGCTGT GCCGAAATGG TCCATCAAAA AATGGCTTTC GCTACCTGGA
AGGGCCGACA CGGCTTTACC AGGTAGTTTT TTACCGAAAG CGATGGACCT

+2 E T R P L I L C E Y A H A M G N S
2951 GAGACGCGCC CGCTGATCCT TTGCGAATAC GCCCAGCGCA TGGGTAACAG
CTCTGCGCGG GCGACTAGGA AACGCTTATG CGGGTGCGCT ACCCATTGTC

+2 L G G F A K Y W Q A F R Q Y P R
3001 TCTTGGCGGT TTCGCTAAAT ACTGGCAGGC GTTTCGTCAG TATCCCCGTT
AGAACCGCCA AAGCGATTTA TGACCGTCCG CAAAGCAGTC ATAGGGGCAA

+2 L Q G G F V W D W V D Q S L I K Y
3051 TACAGGGCGG CTTCTGCTGG GACTGGGTGG ATCAGTCGCT GATTAAATAT
ATGTCCCGCC GAAGCAGACC CTGACCCACC TAGTCAGCGA CTAATTTATA

+2 D E N G N P W S A Y G G D F G D T
3101 GATGAAAACG GCAACCCGTG GTCGGCTTAC GGCGGTGATT TTGGCGATAC
CTACTTTTGC CGTTGGGCAC CAGCCGAATG CCGCCACTAA AACCGCTATG

+2 P N D R Q F C M N G L V F A D R
3151 GCCGAACGAT CGCCAGTTCT GTATGAACGG TCTGGTCTTT GCCGACCGCA
CGGCTTGCTA GCGGTCAAGA CATACTTGCC AGACCAGAAA CGGCTGGCGT

+2 T P H P A L T E A K H Q Q Q F F Q
3201 CGCCGCATCC AGCGCTGACG GAAGCAAAAC ACCAGCAGCA GTTTTCCAG
GCGGCGTAGG TCGCGACTGC CTTCTGTTTTG TGGTCGTCGT CAAAAGGTC

+2 F R L S G Q T I E V T S E Y L F R
3251 TTCCGTTTAT CCGGGCAAAC CATCGAAGTG ACCAGCGAAT ACCTGTTCCG
AAGGCAAATA GGCCGTTTG GTAGCTTCAC TGGTCGCTTA TGGACAAGGC

+2 H S D N E L L H W M V A L D G K
3301 TCATAGCGAT AACGAGCTCC TGCCTGGAT GGTGGCGCTG GATGGTAAGC
AGTATCGCTA TTGCTCGAGG ACGTGACCTA CCACCGCGAC CTACCATTCTG

+2 P L A S G E V P L D V A P Q G K Q
3351 CGCTGGCAAG CCGTGAAGTG CCTCTGGATG TCGCTCCACA AGGTAAACAG
GCGACCGTTC GCCACTTCAC GGAGACCTAC AGCGAGGTGT TCCATTTGTC

+2 L I E L P E L P Q P E S A G Q L W
3401 TTGATTGAAC TGCCTGAACT ACCGCAGCCG GAGAGCGCCG GGCAACTCTG
AACTAATTG ACGGACTTGA TGGCGTCGGC CTCTCGCGGC CCGTTGAGAC

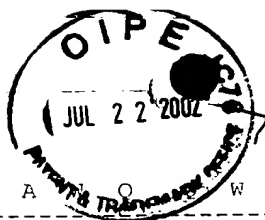
+2 L T V R V V Q P N A T A W S E A
3451 GCTCACAGTA CGCGTAGTGC AACCGAACGC GACCGCATGG TCAGAAGCCG
CGAGTGTCAT GCGCATCAG TTGGCTTGCG CTGGCGTACC AGTCTTCGGC

FIG. 10F

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100AST 73

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+2 G H I S A Q W R L A E N L S V
3501 GGCACATCAG CGCCTGGCAG CAGTGGCGTC TGGCGGAAAA CCTCAGTGTG
CCGTGTAGTC GCGGACCCTC GTCACCGCAG ACCGCTTTT GGAGTCACAC

+2 T L P A A S H A I P H L T T S E M
3551 ACGCTCCCCG CCGCGTCCCA CGCCATCCCG CATCTGACCA CCAGCGAAAT
TGCGAGGGGC GCGCGAGGGT GCGGTAGGGC GTAGACTGGT GGTCGCTTTA

+2 D F C I E L G N K R W Q F N R Q
3601 GGATTTTTGC ATCGAGCTGG GTAATAAGCG TTGGCAATTT AACCGCCAGT
CCTAAAAACG TAGCTCGACC CATTATTCGC AACCGTTAAA TTGGCGGTCA

+2 S G F L S Q M W I G D K K Q L L T
3651 CAGGCTTTTCT TTCACAGATG TGGATTGGCG ATAAAAACA ACTGCTGACG
GTCCGAAAGA AAGTGTCTAC ACCTAACCGC TATTTTTTGT TGACGACTGC

+2 P L R D Q F T R A P L D N D I G V
3701 CCGCTGCGCG ATCAGTTTAC CCGTGCACCG CTGGATAACG ACATTGGCGT
GGCGACGCGC TAGTCAAGTG GGCACGTGGC GACCTATTGC TGTAACCGCA

+2 S E A T R I D P N A W V E R W K
3751 AAGTGAAGCG ACCCGCATTG ACCCTAACGC CTGGGTGCGA CGCTGGAAGG
TTCACCTTCG TGGGCGTAAC TGGGATTGCG GACCCAGCTT GCGACCTTCC

+2 A A G H Y Q A E A A L L Q C T A D
3801 CGGCGGGCCA TTACCAGGCC GAAGCAGCGT TGTTGCAGTG CACGGCAGAT
GCCGCCCCGT AATGGTCCGG CTTCGTCGCA ACAACGTCAC GTGCCGTCTA

+2 T L A D A V L I T T A H A W Q H Q
3851 ACACTTGCTG ATGCGGTGCT GATTACGACC GCTCACGCGT GGCAGCATCA
TGTGAACGAC TACGCCACGA CTAATGCTGG CGAGTGC GCA CCGTCGTAGT

+2 G K T L F I S R K T Y R I D G S
3901 GGGGAAAACC TTATTTATCA GCCGAAAAC CTACCGGATT GATGGTAGTG
CCCCTTTTGG AATAAATAGT CGGCCTTTTG GATGGCCTAA CTACCATCAC

+2 G Q M A I T V D V E V A S D T P H
3951 GTCAAATGGC GATTACCGTT GATGTTGAAG TGGCGAGCGA TACACCGCAT
CAGTTTACCG CTAATGGCAA CTACAACCTC ACCGCTCGCT ATGTGGCGTA

+2 P A R I G L N C Q L A Q V A E R V
4001 CCGGCGCGGA TTGGCCTGAA CTGCCAGCTG GCGCAGGTAG CAGAGCGGGT
GGCCGCGCCT AACCGGACTT GACGGTGCAC GCGTCCATC GTCTCGCCCA

+2 N W L G L G P Q E N Y P D R L T
4051 AAAGTGGCTC GGATTAGGGC CGCAAGAAAA CTATCCCGAC CGCCTTACTG
TTTGACCGAG CTAATCCCG GCGTTCCTTT GATAGGGCTG GCGGAATGAC

FIG. 10G

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TECH CENTER 1600/2900



+2 A A C F D R A T A L P L S D M Y T P

4101 CCGCTGTTT TGACCGCTGG GATCTGCCAT TGTCAGACAT GTATACCCCG
GGCGGACAAA ACTGGCGACC CTAGACGGTA ACAGTCTGTA CATATGGGGC

+2 Y V F P S E N G L R C G T R E L N

4151 TACGTCTTCC CGAGCGAAAA CGGTCTGCGC TGCGGGACGC GCGAATTGAA
ATGCAGAAGG GCTCGCTTTT GCCAGACGCG ACGCCCTGCG CGCTTAACTT

+2 Y G P H Q W R G D F Q F N I S R

4201 TTATGGCCCA CACCAGTGGC GCGGCGACTT CCAGTTCAAC ATCAGCCGCT
AATACCGGGT GTGGTCACCG CGCCGCTGAA GGTCAAGTTG TAGTCGGCGA

+2 Y S Q Q Q L M E T S H R H L L H A

4251 ACAGTCAACA GCAACTGATG GAAACCAGCC ATCGCCATCT GCTGCACGCG
TGTCAGTTGT CGTTGACTAC CTTTGGTCCG TAGCGGTAGA CGACGTGCGC

+2 E E G T W L N I D G F H M G I G G

4301 GAAGAAGGCA CATGGCTGAA TATCGACGGT TTCCATATGG GGATTGGTGG
CTTCTTCCGT GTACCGACTT ATAGCTGCCA AAGGTATACC CCTAACCACC

+2 D D S W S P S V S A E F Q L S A

4351 CGAGACTCC TGGAGCCCGT CAGTATCGGC GGAATTCCAG CTGAGCGCCG
GCTGCTGAGG ACCTCGGGCA GTCATAGCCG CCTTAAGGTC GACTCGCGGC

+2 G R Y H Y Q L V W C Q K R S D Y K

4401 GTCGCTACCA TTACCAGTTG GTCTGGTGTC AAAAAAGATC TGA CTATAAA
CAGCGATGGT AATGGTCAAC CAGACCACAG TTTTCTTAG ACTGATATTT

+2 D E D L D H H H H H H R
----->
4451 GATGAGGACC TCGACCATCA TCATCATCAT CACCGGTAAT AATAGGTAGA
CTACTCCTGG AGCTGGTAGT AGTAGTAGTA GTGGCCATTA TTATCCATCT

4501 TAAGTGACTG ATTAGATGCA TTGATCCCTC GACCAATTCC GGTTATTTTC
ATTCAC TGAC TAATCTACGT AACTAGGGAG CTGGTTAAGG CCAATAAAAG

4551 CACCATATTG CCGTCTTTTG GCAATGTGAG GGCCCGGAAA CCTGGCCCTG
GTGGTATAAC GGCAGAAAAC CGTTACACTC CCGGGCCTTT GGACCGGGAC

4601 TCTTCTTGAC GAGCATTCCT AGGGGTCTTT CCCCTCTCGC CAAAGGAATG
AGAAGAAGT CTCGTAAGGA TCCCCAGAAA GGGGAGAGCG GTTTCCTTAC

4651 CAAGGTCTGT TGAATGTCGT GAAGGAAGCA GTTCCTCTGG AAGCTTCTTG
GTTCCAGACA ACTTACAGCA CTTCTTCGT CAAGGAGACC TTCGAAGAAC

4701 AAGACAAACA ACGTCTGTAG CGACCCTTTG CAGGCAGCGG AACCCCCAC
TTCTGTTTGT TGCAGACATC GCTGGGAAAC GTCCGTCGCC TTGGGGGGTG

4751 CTGGCGACAG GTGCCTCTGC GGCCAAAAGC CACGTGTATA AGATACACCT
GACCGCTGTC CACGGAGACG CCGGTTTTCG GTGCACATAT TCTATGTGGA

FIG. 10H

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TECH CENTER 1600/2900



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5751 GGCTGACCGC TTCCTCGTGC TTTTGGCTAT CGCCGCTCCC GATTTCGCAGC
CCGACTGGCG AAGGAGCACG AAATGCCATA GCGGCGAGGG CTAAGCGTCG

5801 GCATCGCCTT CTATCGCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG
CGTAGCGGAA GATAGCGGAA GAACTGCTCA AGAAGACTCG CCCTGAGACC

5851 GGTTTCGCATC GATAAAATAA AAGATTTTAT TTAGTCTCCA GAAAAAGGGG
CCAAGCGTAG CTATTTTATT TTCTAAAATA AATCAGAGGT CTTTTTCCCC

5901 GGAATGAAAG ACCCCACCTG TAGGTTTGGC AAGCTAGCTT AAGTAACGCC
CCTTACTTTC TGGGGTGGAC ATCCAAACCG TTCGATCGAA TTCATTGCGG

5951 ATTTTGCAAG GCATGGAAAA ATACATAACT GAGAATAGAG AAGTTCAGAT
TAAAACGTTT CGTACCTTTT TATGTATTGA CTCTTATCTC TTCAAGTCTA

6001 CAAGGTCAGG AACAGATGGA ACAGCTGAAT ATGGGCCAAA CAGGATATCT
GTTCCAGTCC TTGTCTACCT TGTCGACTTA TACCCGGTTT GTCCTATAGA

6051 GTGGTAAGCA GTTCTTGCCC CGGCTCAGGG CCAAGAACAG ATGGAACAGC
CACCATTCTG CAAGGACGGG GCCGAGTCCC GGTTCCTGTC TACCTTGTCG

6101 TGAATATGGG CCAAACAGGA TATCTGTGGT AAGCAGTTCC TGCCCCGGCT
ACTTATACCC GGTTCGTCTT ATAGACACCA TTCGTCAAGG ACGGGGCCGA

6151 CAGGGCCAAG AACAGATGGT CCCAGATGC GGTCCAGCCC TCAGCAGTTT
GTCCCGGTTT TTGTCTACCA GGGGTCTACG CCAGGTCGGG AGTCGTCAAA

6201 CTAGAGAACC ATCAGATGTT TCCAGGGTGC CCCAAGGACC TGAAATGACC
GATCTCTTGG TAGTCTACAA AGGTCCACG GGGTTCCTGG ACTTTACTGG

6251 CTGTGCCTTA TTTGAAGTAA CCAATCAGTT CGCTTCTCGC TTCTGTTCGC
GACACGGAAT AAACCTGATT GGTTAGTCAA GCGAAGAGCG AAGACAAGCG

6301 GCGCTTCTGC TCCCCGAGCT CAATAAAAGA GCCACAACC CCTCACTCGG
CGCGAAGACG AGGGGCTCGA GTTATTTTCT CGGGTGTGG GGAGTGAGCC

6351 GGCGCCAGTC CTCCGATTGA CTGAGTCGCC CGGGTACCCG TGTATCCAAT
CCGCGGTCTAG GAGGCTAACT GACTCAGCGG GCCCATGGGC ACATAGGTTA

6401 AAACCCCTCTT GCAGTTGCAT CCGACTTGTG GTCTCGCTGT TCCTTGGGAG
TTTGGGAGAA CGTCAACGTA GGCTGAACAC CAGAGCGACA AGGAACCCTC

6451 GGTCTCCTCT GAGTGATTGA CTACCCGTCA GCGGGGGTCT TTCATTCTATG
CCAGAGGAGA CTCCTAACT GATGGGCAGT CGCCCCCAGA AAGTAAGTAC

6501 CAGCATGTAT CAAAATTAAT TTGGTTTTTT TTCTTAAGTA TTTACATTAA
GTCGTACATA GTTTTAATTA AACCAAAAAA AAGAATTCAT AAATGTAATT

6551 ATGGCCATAG TTGCATTAAT GAATCGGCCA ACGCGCGGGG AGAGGCGGTT
TACCGGTATC AACGTAATTA CTTAGCCGGT TGCGCGCCCC TCTCCGCCAA

6601 TCGTATTGG CGCTCTTCCG CTTCTCGCT CACTGACTCG CTGCGCTCGG
ACGCATAACC GCGAGAAGGC GAAGGAGCGA GTGACTGAGC GACGCGAGCC

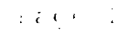
6651 TCGTTCGGCT GCGGCGAGCG GTATCAGCTC ACTCAAAGGC GGTAATACGG
AGCAAGCCGA CGCCGCTCGC CATAGTCGAG TGAGTTTCCG CCATTATGCC

FIG. 10 I

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TECH CENTER 1600/29L



1901 AACCGCCTCG CGGTGATGGT ~~GTTTACCTCG~~ AGTGACGGCA GTTATCTGGA
TTGGCGGAGC GCCACTACCA CGACGCGACC TCACTGCCGT CAATAGACCT

1951 AGATCAGGAT ATGTGGCGGA TGAGCGGCAT TTTCCGTGAC GTCTCGTTGC
TCTAGTCCTA TACACCGCCT ACTCGCCGTA AAAGGCACTG CAGAGCAACG

2001 TGCATAAACC GACTACACAA ATCAGCGATT TCCATGTTGC CACTCGCTTT
ACGTATTTGG CTGATGTGTT TAGTCGCTAA AGGTACAACG GTGAGCGAAA

2051 AATGATGATT TCAGCCGCGC TGTACTGGAG GCTGAAGTTC AGATGTGCGG
TTACTACTAA AGTCGGCGCG ACATGACCTC CGACTTCAAG TCTACACGCC

2101 CGAGTTGCGT GACTACCTAC GGGTAACAGT TTCTTTATGG CAGGGTGAAA
GCTCAACGCA CTGATGGATG CCCATTGTCA AAGAAATACC GTCCCACTTT

2151 CGCAGGTCGC CAGCGGCACC GCGCCTTTTCG GCGGTGAAAT TATCGATGAG
GCGTCCAGCG GTCGCCGTGG CGCGGAAAGC CGCCACTTTA ATAGCTACTC

2201 CGTGGTGGTT ATGCCGATCG CGTCACACTA CGTCTGAACG TCGAAAACCC
GCACCACCAA TACGGCTAGC GCAGTGTGAT GCAGACTTGC AGCTTTTGGG

2251 GAAACTGTGG AGCGCCGAAA TCCCGAATCT CTATCGTGCG GTGGTTGAAC
CTTTGACACC TCGCGGCTTT AGGGCTTAGA GATAGCACGC CACCAACTTG

2301 TGCACACCGC CGACGGCACG CTGATTGAAG CAGAAGCCTG CGATGTCGGT
ACGTGTGGCG GCTGCCGTGC GACTAACTTC GTCTTCGGAC GCTACAGCCA

2351 TTCCGCGAGG TGCGGATTGA AAATGGTCTG CTGCTGCTGA ACGGCAAGCC
AAGGCGCTCC ACGCCTAACT TTTACCAGAC GACGACGACT TGCCGTTTCGG

2401 GTTGCTGATT CGAGGCGTTA ACCGTCACGA GCATCATCCT CTGCATGGTC
CAACGACTAA GCTCCGCAAT TGGCAGTGCT CGTAGTAGGA GACGTACCAG

2451 AGGTCATGGA TGAGCAGACG ATGGTGAGG ATATCCTGCT GATGAAGCAG
TCCAGTACCT ACTCGTCTGC TACCACGTCC TATAGGACGA CTA CTCTCGTC

2501 AACAACTTTA ACGCCGTGCG CTGTTCGCAT TATCCGAACC ATCCGCTGTG
TTGTTGAAAT TGCGGCACGC GACAAGCGTA ATAGGCTTGG TAGGCGACAC

2551 GTACACGCTG TGCGACCGCT ACGGCCTGTA TGTGGTGGAT GAAGCCAATA
CATGTGCGAC ACGCTGGCGA TGCCGGACAT ACACCACCTA CTTTCGGTTAT

2601 TTGAAACCCA CGGCATGGTG CCAATGAATC GTCTGACCGA TGATCCGCGC
AACTTTGGGT GCCGTACCAC GGTTACTTAG CAGACTGGCT ACTAGGCGCG

2651 TGGCTACCGG CGATGAGCGA ACGCGTAACG CGAATGGTGC AGCGCGATCG
ACCGATGGCC GCTACTCGCT TGCGCATTGC GCTTACCACG TCGCGCTAGC

2701 TAATCACCCG AGTGTGATCA TCTGGTCGCT GGGGAATGAA TCAGGCCACG
ATTAGTGGGC TCACACTAGT AGACCAGCGA CCCCTTACTT AGTCCGGTGC

2751 GCGCTAATCA CGACGCGCTG TATCGCTGGA TCAAATCTGT CGATCCTTCC
~~EGCGATTAGT GCTGCGCGAC ATAGCGACCT AGTTTAGACA GCTAGGAAGG~~

2801 CGCCCCGGTGC AGTATGAAGG CGGCGGAGCC GACACCACGG CCACCGATAT
GCGGGCCACG TCATACTTCC GCCGCCTCGG CTGTGGTGCC GGTGGCTATA

FIG. 11D

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TECH CENTER 1600/2900



2851 TATTTGCCCG ATGTACGCGC ~~ATATGCGATGA~~ AGACCAGCCC TTCCCGGCTG
ATAAACGGGC TACATGCGCG CGCACCTACT TCTGGTCGGG AAGGGCCGAC

2901 TGCCGAAATG GTCCATCAAA AAATGGCTTT CGCTACCTGG AGAGACGCGC
ACGGCTTTAC CAGGTAGTTT TTTACCGAAA GCGATGGACC TCTCTGCGCG

2951 CCGCTGATCC TTTGCGAATA CGCCACGCG ATGGGTAACA GTCTTGGCGG
GGCGACTAGG AAACGCTTAT GCGGGTGCGC TACCCATTGT CAGAACCGCC

3001 TTTGCGTAAA TACTGGCAGG CGTTTCGTCA GTATCCCCGT TTACAGGGCG
AAAGCGATTT ATGACCGTCC GCAAAGCAGT CATAGGGGCA AATGTCCCGC

3051 GCTTCGTCTG GGAAGCAAAA CACCAGCAGC AGTTTTTCCA GTTCCGTTTA
CGAAGCAGAC CCTGACCCAC CTAGTCAGCG ACTAATTTAT ACTACTTTTG

3101 GGCAACCCGT GGTCGGCTTA CGGCGGTGAT TTTGGCGATA CGCCGAACGA
CCGTTGGGCA CCAGCCGAAT GCCGCCACTA AAACCGCTAT GCGGCTTGCT

3151 TCGCCAGTTC TGTATGAACG GTCTGGTCTT TGCCGACCGC ACGCCGCATC
AGCGGTCAAG ACATACTTGC CAGACCAGAA ACGGCTGGCG TCGGGCGTAG

3201 CAGCGCTGAC GGAAGCAAAA CACCAGCAGC AGTTTTTCCA GTTCCGTTTA
GTCGCGACTG CCTTCGTTTT GTGGTCGTCG TCAAAAAGGT CAAGGCAAT

3251 TCCGGGCAAA CCATCGAAGT GACCAGCGAA TACCTGTTCC GTCATAGCGA
AGGCCCGTTT GGTAGCTTCA CTGGTCGCTT ATGGACAAGG CAGTATCGCT

3301 TAACGAGCTC CTGCACTGGA TGGTGGCGCT GGATGGTAAG CCGCTGGCAA
ATTGCTCGAG GACGTGACCT ACCACCGCGA CCTACCATTG GCGACCGTT

3351 GCGGTGAAGT GCCTCTGGAT GTCGCTCCAC AAGGTAAACA GTTGATTGAA
CGCCACTTCA CGGAGACCTA CAGCGAGGTG TTCCATTTGT CAACTAACTT

3401 CTGCCTGAAC TACCGCAGCC GGAGAGCGCC GGGCAACTCT GGCTCACAGT
GACGGACTTG ATGGCGTCGG CCTCTCGCGG CCCGTTGAGA CCGAGTGTCA

3451 ACGCGTAGTG CAACCGAACG CGACCGCATG GTCAGAAGCC GGGCACATCA
TGCGCATCAC GTTGGCTTGC GCTGGCGTAC CAGTCTTCGG CCCGTGTAGT

3501 GCGCCTGGCA GCAGTGGCGT CTGGCGGAAA ACCTCAGTGT GACGCTCCCC
CGCGGACCGT CGTCACCGCA GACCGCCTTT TGGAGTCACA CTGCGAGGGG

3551 GCCGCGTCCC ACGCCATCCC GCATCTGACC ACCAGCGAAA TGGATTTTTG
CGGCGCAGGG TGCGGTAGGG CGTAGACTGG TGGTCGCTTT ACCTAAAAAC

3601 CATCGAGCTG GGTAATAAGC GTTGGCAATT TAACCGCCAG TCAGGCTTTC
GTAGCTCGAC CCATTATTCG CAACCGTTAA ATTGGCGGTC AGTCCGAAAG

3651 TTTACAGAT GTGGATTGGC GATAAAAAAC AACTGCTGAC GCCGCTGCGC
AAAGTGTCTA CACCTAACCG CTATTTTTTG TTGACGACTG CGGCGACGCG

3701 GATCAGTTCA CCCGTGCACC GCTGGATAAC GACATTGGCG TAAGTGAAGC
~~CTAGTCAAGT~~ ~~GGGCACGTGG~~ ~~CGACCTATTG~~ ~~CTGTAAACCGC~~ ~~ATCACTTCG~~

3751 GACCCGCATT GACCCTAACG CCTGGGTCGA ACGCTGGAAG GCGGCGGGCC
CTGGGCGTAA CTGGGATTGC GGACCCAGCT TGGGACCTTC CGCCGCCCGG

FIG. 11E

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3801 ATTACCAGGC CGAAGCAGG TGCATCAGT GCACGGCAGA TACACTTGCT
TAATGGTCCG GCTTCGTGCG AACAACGTCA CGTGCCGTCT ATGTGAACGA

3851 GATGCGGTGC TGATTACGAC CGCTCACGCG TGGCAGCATC AGGGGAAAAC
CTACGCCACG ACTAATGCTG GCGAGTGCGC ACCGTCGTAG TCCCCTTTTG

3901 CTTATTTATC AGCCGGAAAA CCTACCGGAT TGATGGTAGT GGTCAAATGG
GAATAAATAG TCGGCCTTTT GGATGGCCTA ACTACCATCA CCAGTTTACC

3951 CGATTACCGT TGATGTTGAA GTGGCGAGCG ATACACCGCA TCCGGCGCGG
GCTAATGGCA ACTACAACCT CACCGCTCGC TATGTGGCGT AGGCCGCGCC

4001 ATTGGCCTGA ACTGCCAGCT GCGCGAGGTA GCAGAGCGGG TAAACTGGCT
TAACCGGACT TGACGGTCGA CCGCGTCCAT CGTCTCGCCC ATTTGACCGA

4051 CGGATTAGGG CCGCAAGAAA ACTATCCCGA CCGCCTTACT GCCGCCTGTT
GCCTAATCCC GCGTTTCTTT TGATAGGGCT GCGGGAATGA CGGCGGACAA

4101 TTGACCGCTG GGATCTGCCA TTGTCAGACA TGTATACCCC GTACGTCTTC
AACTGGCGAC CCTAGACGGT AACAGTCTGT ACATATGGGG CATGCAGAAG

4151 CCGAGCGAAA ACGGTCTGCG CTGCGGGACG CGCGAATTGA ATTATGGCCC
GGCTCGCTTT TGCCAGACGC GACGCCCTGC GCGCTTAACT TAATACCGGG

4201 ACACCAAGTGG CGCGGCGACT TCCAGTTCAA CATCAGCCGC TACAGTCAAC
TGTGGTCAAC GCGCCGCTGA AGGTCAAGTT GTAGTCGCGC ATGTCAGTTG

4251 AGCAACTGAT GGAAACCAGC CATCGCCATC TGCTGCACGC GGAAGAAGGC
TCGTTGACTA CCTTTGGTCG GTAGCGGTAG ACGACGTGCG CCTTCTTCCG

4301 ACATGGCTGA ATATCGACGG TTTCCATATG GGGATTGGTG GCGACGACTC
TGTACCGACT TATAGCTGCC AAAGGTATAC CCCTAACCAC CGCTGCTGAG

4351 CTGGAGCCCG TCAGTATCGG CGGAATTCCA GCTGAGCGCC GGTCGCTACC
GACCTCGGGC AGTCATAGCC GCCTTAAGGT CGACTCGCGG CCAGCGATGG

4401 ATTACCAGTT GGTCTGGTGT CAAAAAAGAT CTGGAGGTGG TGGCAGCAGG
TAATGGTCAA CCAGACCACA GTTTTTTCTA GACCTCCACC ACCGTCGTCC

4451 CCTTGGCGCG CCGGATCCTT AATTAACAAT TGACCGGTAA TAATAGGTAG
GGAACCGCGC GGCCTAGGAA TTAATTGTTA ACTGGCCATT ATTATCCATC

4501 ATAAGTGACT GATTAGATGC ATTGATCCCT CGACCAATTG CGGTTATTTT
TATTCATGA CTAATCTACG TAACTAGGGA GCTGGTTAAG GCCAATAAAA

4551 CCACCATATT GCCGTCTTTT GGCAATGTGA GGGCCCGGAA ACCTGGCCCT
GGTGGTATAA CGGCAGAAAA CCGTTACACT CCCGGGCCTT TGGACCGGGA

4601 GTCTTCTTGA CGAGCATTCC TAGGGGTCTT TCCCCTCTCG CCAAAGGAAT
CAGAAGAACT GCTCGTAAGG ATCCCCAGAA AGGGGAGAGC GGTTTCCTTA

4651 GCAAGGTCTG TTGAATGTCG TGAAGGAAGC AGTTCCTCTG GAAGCTTCTT
CGTTCCAGAC AACTTACAGC ACTTCCTCTG TCAAGGAGAC CTTCGAAGAA

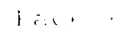
4701 GAAGACAAAC AACGTCTGTA GCGACCCTTT GCAGGCAGCG GAACCCCCCA
CTTCTGTTTG TTGCAGACAT CGCTGGGAAA CGTCCGTCGC CTTGGGGGGT

FIG. 11F

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TECH CENTER 1600/2900



5701 GGACATAGCG TTGGCTACCG GCGATATGCG TGAAGAGCTT GGCGGCGAAT
CCTGTATCGC AACCGATGGG CACTATAACG ACTTCTCGAA CCGCCGCTTA

5751 GGGCTGACCG CTTCTCTCGTG CTTTACGGTA TCGCCGCTCC CGATTTCGCAG
CCCGACTGGC GAAGGAGCAC GAAATGCCAT AGCGGCGAGG GCTAAGCGTC

5801 CGCATCGCCT TCTATCGCCT TCTTGACGAG TTCTTCTGAG CGGGACTCTG
GCGTAGCGGA AGATAGCGGA AGAACTGCTC AAGAAGACTC GCCCTGAGAC

5851 GGGTTCGCAT CGATAAAATA AAAGATTTTA TTTAGTCTCC AGAAAAAGGG
CCCAAGCGTA GCTATTTTAT TTTCTAAAT AAATCAGAGG TCTTTTCCC

5901 GGGAATGAAA GACCCACCT GTAGGTTTG CAAGCTAGCT TAAGTAACGC
CCCTTACTTT CTGGGGTGA CATCCAAACC GTTCGATCGA ATTCATTGCG

5951 CATTTTGCAA GGCATGGAAA AATACATAAC TGAGAATAGA GAAGTTCAGA
GTAAACGTT CCGTACCTTT TTATGTATTG ACTCTTATCT CTTCAAGTCT

6001 TCAAGGTCAG GAACAGATGG AACAGCTGAA TATGGGCCAA ACAGGATATC
AGTTCCAGTC CTTGTCTACC TTGTCGACTT ATACCCGGTT TGTCTATAG

6051 TGTGGTAAGC AGTTCCTGCC CCGGCTCAGG GCCAAGAACA GATGGAACAG
ACACCATTCTG TCAAGGACGG GGCCGAGTCC CGGTTCTTGT CTACCTTGTC

6101 CTGAATATGG GCCAAACAGG ATATCTGTGG TAAGCAGTTC CTGCCCCGGC
GACTTATACC CGGTTTGTCC TATAGACACC ATTCGTCAAG GACGGGGCCG

6151 TCAGGGCCAA GAACAGATGG TCCCCAGATG CGGTCCAGCC CTCAGCAGTT
AGTCCCGGTT CTTGTCTACC AGGGGTCTAC GCCAGGTCGG GAGTCGTCAA

6201 TCTAGAGAAC CATCAGATGT TTCCAGGGTG CCCAAGGAC CTGAAATGAC
AGATCTCTTG GTAGTCTACA AAGGTCCAC GGGGTTCTG GACTTTACTG

6251 CCTGTGCCTT ATTTGAACTA ACCAATCAGT TCGCTTCTCG CTTCTGTTCG
GGACACGGAA TAAACTTGAT TGGTTAGTCA AGCGAAGAGC GAAGACAAGC

6301 CGCGCTTCTG CTCCCCGAGC TCAATAAAAG AGCCCACAAC CCTCACTCG
GCGCGAAGAC GAGGGGCTCG AGTTATTTTC TCGGGTGTTG GGGAGTGAGC

6351 GGGCGCCAGT CCTCCGATTG ACTGAGTCGC CCGGGTACCC GTGTATCCAA
CCCGCGGTCA GGAGGCTAAC TGACTCAGCG GGCCCATGGG CACATAGGTT

6401 TAAACCCTCT TGCAGTTGCA TCCGACTTGT GGTCTCGCTG TTCCTTGGGA
ATTTGGGAGA ACGTCAACGT AGGCTGAACA CCAGAGCGAC AAGGAACCTT

6451 GGGTCTCCTC TGAGTGATTG ACTACCCGTC AGCGGGGGTC TTTTATTTCAT
CCCAGAGGAG ACTCACTAAC TGATGGGCAG TCGCCCCCAG AAAGTAAGTA

6501 GCAGCATGTA TCAAAATTAA TTTGGTTTTT TTTCTTAAGT ATTTACATTA
CGTCGTACAT AGTTTTAATT AAACCAAAAA AAAGAATTCA TAAATGTAAT

6551 AATGGCCATA GTTGCAATTA TGAATCGGCC AACGCGCGGG GAGAGGCGGT
TTACCGGTAT CAACGTAATT ACTTAGCCGG TTGCGCGCCC CTCTCCGCCA

6601 TTGCGTATTG GCGCTCTTCC GCTTCCTCGC TCACTGACTC GCTGCGCTCG
AACGCATAAC CGCGAGAAGG CGAAGGAGCG AGTGACTGAG CGACGCGAGC

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FIG. 11H

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TECH CENTER 1600/2900



6651 GTCGTTCCGGC TCGCGCGAGG TCGTAAACAGCT CACTCAAAGG CGGTAATACG
CAGCAAGCCG ACGCCGCTCG CCATAGTCGA GTGAGTTTCC GCCATTATGC

6701 GTTATCCACA GAATCAGGGG ATAACGCAGG AAAGAACATG TGAGCAAAAG
CAATAGGTGT CTTAGTCCCC TATTGCGTCC TTTCTTGTAC ACTCGTTTTT

6751 GCCAGCAAAA GGCCAGGAAC CGTAAAAAGG CCGCGTTGCT GCGTTTTTTC
CGGTCGTTTT CCGGTCCTTG GCATTTTTTCC GGCACAACGA CCGCAAAAAG

6801 CATAGGCTCC GCCCCCTGA CGAGCATCAC AAAAATCGAC GCTCAAGTCA
GTATCCGAGG CGGGGGGACT GCTCGTAGTG TTTTGTAGTG CGAGTTCAGT

6851 GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG TTTCCCCCTG
CTCCACCGCT TTGGGCTGTC CTGATATTTT TATGGTCCGC AAAGGGGGAC

6901 GAAGCTCCCT CGTGCGCTCT CCTGTTCCGA CCCTGCCGCT TACCGGATAC
CTTCGAGGGA GCACGCGAGA GGACAAGGCT GGGACGGCGA ATGGCCTATG

6951 CTGTCCGCCT TTCTCCCTTC GGAAGCGTG GCGCTTCTC ATAGCTCACG
GACAGGCGGA AAGAGGGAAG CCTTCGCAC CGCGAAAGAG TATCGAGTGC

7001 CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG CTGGGCTGTG
GACATCCATA GAGTCAAGCC ACATCCAGCA AGCGAGGTTC GACCCGACAC

7051 TGCACGAACC CCCCCTTCAG CCCGACCGCT GCGCCTTATC CGGTAACAT
ACGTGCTTGG GGGGCAAGTC GGGCTGGCGA CGCGGAATAG GCCATTGATA

7101 CGTCTTGAGT CCAACCCGGT AAGACACGAC TTATCGCCAC TGGCAGCAGC
GCAGAACTCA GGTTGGGCCA TTCTGTGCTG AATAGCGGTG ACCGTCGTCG

7151 CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGT GCTACAGAGT
GTGACCATTG TCCTAATCGT CTCGCTCCAT ACATCCGCCA CGATGTCTCA

7201 TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGAAC AGTATTTGGT
AGAACTTCAC CACCGGATTG ATGCCGATGT GATCTTCTTG TCATAAACCA

7251 ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTC
TAGACGCGAG ACGACTTCGG TCAATGGAAG CCTTTTTTCTC AACCATCGAG

7301 TTGATCCGGC AAACAAACCA CCGCTGGTAG CCGTGGTTTT TTTGTTTGCA
AACTAGGCCG TTTGTTTGGT GGCGACCATC GCCACCAAAA AAACAAACGT

7351 AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC
TCGTGCTCTA ATGCGCGTCT TTTTTCCTA GAGTTCTTCT AGGAAACTAG

7401 TTTTCTACGG GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGAT
AAAAGATGCC CCAGACTGCG AGTCACCTTG CTTTGTAGTG CAATTCCCTA

7451 TTTGGTCATG AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTGCGGC
AAACCAGTAC TCTAATAGTT TTTCTAGAA GTGGATCTAG GAAAACGCCG

7501 CGCAAATCAA TCTAAAGTAT ATATGAGTAA ACTTGGTCTG ACAGTTACCA
GCGTTTAGTT AGATTTGATA TATACTGATT TGAACCAGAC TGTCATGGT

7551 ATGCTTAATC AGTGAGGCAC CTATCTCAGC GATCTGTCTA TTTCGTTTAT
TACGAATTAG TCACTCCGTG GATAGAGTCG CTAGACAGAT AAAGCAAGTA

FIG. 11 I

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TECH CENTER 1600/2900



7601 CCATAGTTGC CTGACTCCCC TCGCTGAGGA TAACTACGAT ACGGGAGGGC
GGTATCAACG GACTGAGGGG CAGCACATCT ATTGATGCTA TGCCCTCCCG

7651 TTACCATCTG GCCCCAGTGC TGCAATGATA CCGCGAGACC CACGCTCACC
AATGGTAGAC CGGGGTCACG ACGTTACTAT GGCGCTCTGG GTGCGAGTGG

7701 GGCTCCAGAT TTATCAGCAA TAAACCAGCC AGCCGGAAGG GCCGAGCGCA
CCGAGGTCTA AATAGTCGTT ATTTGGTCGG TCGGCCTTCC CGGCTCGCGT

7751 GAAGTGGTCC TGCAACTTTA TCCGCCTCCA TCCAGTCTAT TAATTGTTGC
CTTCACCAGG ACGTTGAAAT AGGCGGAGGT AGGTCAGATA ATTAACAACG

7801 CGGGAAGCTA GAGTAAGTAG TTCGCCAGTT AATAGTTTGC GCAACGTTGT
GCCCTTCGAT CTCATTTCATC AAGCGGTCAA TTATCAAACG CGTTGCAACA

7851 TGCCATTGCT ACAGGCATCG TGGTGTACG CTCGTCTGTT GGTATGGCTT
ACGGTAACGA TGTCCGTAGC ACCACAGTGC GAGCAGCAAA CCATACCGAA

7901 CATTGAGCTC CGGTTCCCAA CGATCAAGGC GAGTTACATG ATCCCCCATG
GTAAGTCGAG GCCAAGGGTT GCTAGTTCCG CTCAATGTAC TAGGGGGTAC

7951 TTGTGCAAAA AAGCGGTTAG CTCCTTCGGT CCTCCGATCG TTGTCAGAAAG
AACACGTTTT TTCGCCAATC GAGGAAGCCA GGAGGCTAGC AACAGTCTTC

8001 TAAGTTGGCC GCAGTGTTAT CACTCATGGT TATGGCAGCA CTGCATAATT
ATTCAACCGG CGTCACAATA GTGAGTACCA ATACCGTCGT GACGTATTAA

8051 CTCTTACTGT CATGCCATCC GTAAGATGCT TTTCTGTGAC TGGTGAGTAC
GAGAATGACA GTACGGTAGG CATTCTACGA AAAGACACTG ACCACTCATG

8101 TCAACCAAGT CATTCTGAGA ATAGTGATAG CGGCGACCGA GTTGCTCTTG
AGTTGGTTCA GTAAGACTCT TATCACATAC GCCGCTGGCT CAACGAGAAC

8151 CCCGGCGTCA ATACGGGATA ATACCGCGCC ACATAGCAGA ACTTTAAAAG
GGGCCGAGT TATGCCCTAT TATGGCGCGG TGTATCGTCT TGAAATTTTC

8201 TGCTCATCAT TGGAAAACGT TCTTCGGGGC GAAAACTCTC AAGGATCTTA
ACGAGTAGTA ACCTTTTGCA AGAAGCCCCG CTTTTGAGAG TTCCTAGAAT

8251 CCGCTGTTGA GATCCAGTTC GATGTAACCC ACTCGTGCAC CCAACTGATC
GGCGACAACT CTAGGTCAAG CTACATTGGG TGAGCACGTG GGTGACTAG

8301 TTCAGCATCT TTTACTTTCA CCAGCGTTTC TGGGTGAGCA AAAACAGGAA
AAGTCGTAGA AAATGAAAGT GGTGCGCAAAG ACCCACTCGT TTTTGTCTTT

8351 GGCAAAATGC CGCAAAAAAG GGAATAAGGG CGACACGGAA ATGTTGAATA
CCGTTTTACG GCGTTTTTTC CCTTATTCCC GCTGTGCCTT TACAACCTAT

8401 CTCATACTCT TCCTTTTTCA ATATTATTGA AGCATTATC AGGGTTATTG
GAGTATGAGA AGGAAAAAGT TATAATAACT TCGTAAATAG TCCCAATAAC

8451 TCTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT AAACAAATAG
AGAGTACTCG CCTATGTATA AACTTACATA AATCTTTTTA TTTGTTTATC

8501 GGGTTCCGCG CACATTC
CCCAAGGCG GTGTAAAG

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FIG. 11J

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TECH CENTER 1600/2900



951 TCCCTTAAGT TTGACCTTAG ~~CGTCTCTCCC~~ AGATGTCGAG CGGCTCGCTC
AGGGAATTCA AACTGGAATC CATTGACCTT TCTACAGCTC GCCGAGCGAG

1001 ACAACCAGTC GGTAGATGTC AAGAAGAGAC GTTGGGTTAC CTTCTGCTCT
TGTTGGTCAG CCATCTACAG TTCTTCTCTG CAACCCAATG GAAGACGAGA

1051 GCAGAATGGC CAACCTTTAA CGTCGGATGG CCGCGAGACG GCACCTTTAA
CGTCTTACCG GTTGGAAATT GCAGCCTACC GCGCTCTGC CGTGGAAATT

1101 CCGAGACCTC ATCACCCAGG TTAAGATCAA GGTCTTTTCA CCTGGCCCGC
GGCTCTGGAG TAGTGGGTCC AATTCTAGTT CCAGAAAAGT GGACCGGGCG

1151 ATGGACACCC AGACCAGGTC CCCTACATCG TGACCTGGGA AGCCTTGGCT
TACCTGTGGG TCTGGTCCAG GGGATGTAGC ACTGGACCCT TCGGAACCGA

1201 TTTGACCCCC CTCCCTGGGT CAAGCCCTTT GTACACCCTA AGCCTCCGCC
AAACTGGGGG GAGGGACCCA GTTCGGGAAA CATGTGGGAT TCGGAGGCGG

1251 TCCTCTTCCT CCATCCGCCC CGTCTCTCCC CTTTGAACCT CCTCGTTCGA
AGGAGAAAGGA GGTAGGCGGG GCAGAGAGGG GGAACCTGGA GGAGCAAGCT

1301 CCCC GCCTCG ATCCTCCCTT TATCCAGCCC TCACTCCTTC TCTAGGCGCC
GGGGCGGAGC TAGGAGGGAA ATAGGTCGGG AGTGAGGAAG AGATCCGCGG

1351 GGCCGCTCTA GCCCATTAAT ACGACTCACT ATAGGGCGAT TCGAATCAGG
CCGGCGAGAT CGGGTAATTA TGCTGAGTGA TATCCCCTA AGCTTAGTCC

1401 CCTTGGCGCG CCGGATCCTT AATTAAGCGC AATTGGGAGG TGGCGGTAGC
GGAACGCGC GGCTAGGAA TTAATTCGCG TTAACCCTCC ACCGCCATCG

1451 CTCGAGATGG GCGTGATTAC GGATTCACCTG GCCGTCGTTT TACAACGTCG
GAGCTCTACC CGCACTAATG CCTAAGTGAC CGGCAGCAAA ATGTTGCAGC

1501 TGA CTGGGAA AACCCTGGCG TTACCCAACT TAATCGCCTT GCAGCACATC
ACTGACCCTT TTGGGACCGC AATGGGTTGA ATTAGCGGAA CGTCGTGTAG

1551 CCCCTTTTCG CAGCTGGCGT AATAGCGAAG AGGCCCGCAC CGATCGCCCT
GGGGAAAGCG GTCGACCGCA TTATCGCTTC TCCGGGCGTG GCTAGCGGGA

1601 TCCCAACAGT TACGCAGCCT GAATGGCGAA TGGCGCTTTG CCTGGTTTCC
AGGGTTGTCA ATGCGTCGGA CTTACCGCTT ACCGCGAAAC GGACCAAAGG

1651 GGCACCAGAA GCGGTGCCGG AAAGCTGGCT GGAGTGCGAT CTTCTGAGG
CCGTGGTCTT CGCCACGGCC TTTCGACCGA CCTCACGCTA GAAGGACTCC

1701 CCGATACTGT CGTCGTCCCC TCAA CTGGC AGATGCACGG TTACGATGCG
GGCTATGACA GCAGCAGGGG AGTTTGACCG TCTACGTGCC AATGCTACGC

1751 CCCATCTACA CCAACGTGAC CTATCCCATT ACGGTCAATC CGCCGTTTGT
GGGTAGATGT GGTGCACTG GATAGGGTAA TGCCAGTTAG GCGGCAAACA

1801 TCCACGGAG AATCCGACGG GTTGTTACTC GCTCACATTT AATGTTGATG
AGGGTGCCCTC ~~TTAGGETGEE~~ ~~CAACAATGAG~~ ~~CGAGTGTA~~ ~~TTACA~~ ~~ACTAC~~

1851 AAAGCTGGCT ACAGGAAGGC CAGACGCGAA TTATTTTGA TGGCGTTAAC
TTTCGACCGA TGTCCTTCCG GTCTGCGCTT AATAAAACT ACCGCAATTG

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FIG. 12C

JUL 25 2002

TECH CENTER 1600/2900



1901 TCGGCGTTTT ATCTGTGGTG CAGTGTGGTG TGGGTCGGTT ACGGCCAGGA
AGCCGCAAAG TAGACACCAC GTTGCCCGCG ACCCAGCCAA TGCCGGTCCT

1951 CAGTCGTTTT CCGTCTGAAT TTGACCTGAG CGCATTTTTTA CGCGCCGGAG
GTCAGCAAAC GGCAGACTTA AACTGGACTC GCGTAAAAAT GCGCGGCCCTC

2001 AAAACCGCCT CGCGGTGATG GTGCTGCGCT GGAGTGACGG CAGTTATCTG
TTTTGGCGGA GCGCCACTAC CACGACGCGA CCTCACTGCC GTCAATAGAC

2051 GAAGATCAGG ATATGTGGCG GATGAGCGGC ATTTTCCGTG ACGTCTCGTT
CTTCTAGTCC TATACACCGC CTACTCGCCG TAAAAGGCAC TGCAGAGCAA

2101 GCTGCATAAA CCGACTACAC AAATCAGCGA TTTCCATGTT GCCACTCGCT
CGACGTATTT GGCTGATGTG TTTAGTCGCT AAAGGTACAA CCGTGAGCGA

2151 TTAATGATGA TTTCAGCCGC GCTGTACTGG AGGCTGAAGT TCAGATGTGC
AATTACTACT AAAGTCGGCG CGACATGACC TCCGACTTCA AGTCTACACG

2201 GGCGAGTTGC GTGACTACCT ACGGGTAACA GTTTCTTTAT GGCAGGGTGA
CCGCTCAACG CACTGATGGA TGCCCATTTGT CAAAGAAATA CCGTCCCACT

2251 AACGCAGGTC GCCAGCGGCA CCGCGCCTTT CGGCGGTGAA ATTATCGATG
TTGCGTCCAG CGGTCGCCGT GGCAGCGGAA GCCGCCACTT TAATAGCTAC

2301 AGCGTGGTGG TTATGCCGAT CGCGTCACAC TACGTCTGAA CGTCGAAAAC
TCGCACCACC AATACGGCTA GCGCAGTGTG ATGCAGACTT GCAGCTTTTG

2351 CCGAAACTGT GGAGCGCCGA AATCCCGAAT CTCTATCGTG CCGTGGGTTGA
GGCTTTGACA CCTCGCGGCT TTAGGGCTTA GAGATAGCAC GCCACCAACT

2401 ACTGCACACC GCCGACGGCA CGCTGATTGA AGCAGAAGCC TGCGATGTGC
TGACGTGTGG CGGCTGCCGT GCGACTAACT TCGTCTTCGG ACGCTACAGC

2451 GTTTCCGCGA GGTGCGGATT GAAAATGGTC TGCTGCTGCT GAACGGCAAG
CAAAGGCGCT CCACGCCTAA CTTTTACCAG ACGACGACGA CTTGCCGTTT

2501 CCGTTGCTGA TTCGAGGCGT TAACCGTCAC GAGCATCATC CTCTGCATGG
GGCAACGACT AAGCTCCGCA ATTGGCAGTG CTCGTAGTAG GAGACGTACC

2551 TCAGGTCATG GATGAGCAGA CGATGGTGCA GGATATCCTG CTGATGAAGC
AGTCCAGTAC CTACTCGTCT GCTACCACGT CCTATAGGAC GACTACTTCG

2601 AGAACAACCT TAACGCCGTG CGCTGTTTCG ATTATCCGAA CCATCCGCTG
TCTTGTTGAA ATTGCGGCAC GCGACAAGCG TAATAGGCTT GGTAGGCGAC

2651 TGGTACACGC TGTGCGACCG CTACGGCCTG TATGTGGTGG ATGAAGCCAA
ACCATGTGCG ACACGCTGGC GATGCCGGAC ATACACCACC TACTTCGGTT

2701 TATTGAAACC CACGGCATGG TGCCAATGAA TCGTCTGACC GATGATCCGC
ATAACTTTGG GTGCCGTACC ACGGTTACTT AGCAGACTGG CTACTAGGCG

2751 GCTGGCTACC GGCGATGAGC GAACGCGTAA CGCGAATGGT GCAGCGCGAT
~~CGACCGATGG CCGCTACTCG CTTGCGCATT GCGCTTACCA CGTCGCGCTA~~

2801 CGTAATCACC CGAGTGTGAT CATCTGGTCG CTGGGGAATG AATCAGGCCA
GCATTAGTGG GCTCACACTA GTAGACCAGC GACCCCTTAC TTAGTCCGGT

FIG. 12D

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TECH CENTER 1600/2900



110CAST 7M

18.0

2851 CGGCGCTAAT CACGACGCGC TCGATCGGCT GATCAAATCT GTCGATCCTT
GCCGCGATTA GTGCTGCGCG ACATAGCGAC CTAGTTTAGA CAGCTAGGAA

2901 CCCGCCCCGT GCAGTATGAA GCGGGCGGAG CCGACACCAC GGCCACCGAT
GGGCGGGCCA CGTCATACTT CCGCCGCCTC GGCTGTGGTG CCGGTGGCTA

2951 ATTATTTGCC CGATGTACGC GCGCGTGGAT GAAGACCAGC CCTTCCCGGC
TAATAAACGG GCTACATGCG CCGCACCTA CTTCTGGTCG GGAAGGGCCG

3001 TGTGCCGAAA TGGTCCATCA AAAAATGGCT TTCGCTACCT GGAGAGACGC
ACACGGCTTT ACCAGGTAGT TTTTACCAG AAGCGATGGA CCTCTCTGCG

3051 GCCCGCTGAT CCTTTGCGAA TACGCCCACG CGATGGGTAA CAGTCTTGGC
CGGGCGACTA GGAAACGCTT ATGCGGGTGC GCTACCCATT GTCAGAACCG

3101 GGTTCGCTA AATACTGGCA GCGTTCGT CAGTATCCCC GTTTACAGGG
CCAAAGCGAT TTATGACCGT CCGCAAAGCA GTCATAGGGG CAAATGTCCC

3151 CGGCTTCGTC TGGGACTGGG TGGATCAGTC GCTGATTAAA TATGATGAAA
GCCGAAGCAG ACCCTGACCC ACCTAGTCAG CGACTAATTT ATACTACTTT

3201 ACGGCAACCC GTGGTCGGCT TACGGCGGTG ATTTTGCGCA TACGCCGAAC
TGCCGTTGGG CACCAGCCGA ATGCCGCCAC TAAAACCGCT ATGCGGCTTG

3251 GATCGCCAGT TCTGTATGAA CGGTCTGGTC TTTGCCGACC GCACGCCGCA
CTAGCGGTCA AGACATACTT GCCAGACCAG AAACGGCTGG CGTGCGGCGT

3301 TCCAGCGCTG ACGGAAGCAA AACACCAGCA GCAGTTTTTC CAGTTCCGTT
AGGTGCGGAC TGCCTTCGTT TTGTGGTCGT CGTCAAAAAG GTCAAGGCAA

3351 TATCCGGGCA AACCATCGAA GTGACCAGCG AATACCTGTT CCGTCATAGC
ATAGGCCCGT TTGGTAGCTT CACTGGTCGC TTATGGACAA GGCAGTATCG

3401 GATAACGAGC TCCTGCACTG GATGGTGGCG CTGGATGGTA AGCCGCTGGC
CTATTGCTCG AGGACGTGAC CTACCACCGC GACCTACCAT TCGGCGACCG

3451 AAGCGGTGAA GTGCCTCTGG ATGTCGCTCC ACAAGGTAAA CAGTTGATTG
TTCGCCACTT CACGGAGACC TACAGCGAGG TGTTCCATTT GTCAACTAAC

3501 AACTGCCTGA ACTACCGCAG CCGGAGAGCG CCGGGCAACT CTGGCTCACA
TTGACGGACT TGATGGCGTC GGCCTCTCGC GGCCCGTTGA GACCGAGTGT

3551 GTACGCGTAG TGCAACCGAA CGCGACCGCA TGGTCAGAAG CCGGGCACAT
CATGCGCATC ACGTTGGCTT GCGCTGGCGT ACCAGTCTTC GGCCCGTGTA

3601 CAGCGCCTGG CAGCAGTGGC GTCTGGCGGA AAACCTCAGT GTGACGCTCC
GTCGCGGACC GTCGTCACCG CAGACCGCCT TTTGGAGTCA CACTGCGAGG

3651 CCGCCGCGTC CCACGCCATC CCGCATCTGA CCACCAGCGA AATGGATTTT
GGCGGCGCAG GGTGCGGTAG GCGGTAGACT GGTGGTCGCT TTACCTAAAA

3701 TGCATCGAGC TGGGTAATAA GCGTTGGCAA TTTAACCGCC AGTCAGGCTT
~~ACGTAGCTCG~~ ~~ACCCATTATT~~ ~~CGEAAACCGTT~~ ~~AAATTGGCGG~~ ~~TCAGTCCGAA~~

3751 TCTTTCACAG ATGTGGATTG GCGATAAAAA ACAACTGCTG ACGCCGCTGC
AGAAAGTGTC TACACCTAAC CGCTATTTTT GTTTGACGAC TGCGGCGACG

FIG. 12E

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3801 GCGATCAGTT CACCCGTGTC ~~CTATCTAGAC~~ AACAGAACT CATTTCGAA
CGCTAGTCAA GTGGGCACAG CTATCTAGAC TTGTCTTTGA GTAAAGGCTT

3851 GAAGACCTAG TCGACCATCA TCATCATCAT CACCGGTAAT AATAGGTAGA
CTTCTGGATC AGCTGGTAGT AGTAGTAGTA GTGGCCATTA TTATCCATCT

3901 TAAGTGA CTG ATTAGATGCA TTTCGACTAG ATCCCTCGAC CAATTCCGGT
ATTCATGAC TAATCTACGT AAAGCTGATC TAGGGAGCTG GTTAAGGCCA

3951 TATTTTCCAC CATATTGCCG TCTTTTGGCA ATGTGAGGGC CCGGAAACCT
ATAAAAGGTG GTATAACGGC AGAAAACCGT TACACTCCCG GGCCTTTGGA

4001 GGCCCTGTCT TCTTGACGAG CATTCCTAGG GGTCTTTCCC CTCTCGCCAA
CCGGGACAGA AGAACTGCTC GTAAGGATCC CCAGAAAGGG GAGAGCGGTT

4051 AGGAATGCAA GGTCTGTTGA ATGTCGTGAA GGAAGCAGTT CCTCTGGAAG
TCCTTACGTT CCAGACAACT TACAGCACTT CCTTCGTCAA GGAGACCTTC

4101 CTTCTTGAAG ACAAACAACG TCTGTAGCGA CCCTTTGCAG GCAGCGGAAC
GAAGAACTTC TGTTTGTTGC AGACATCGCT GGGAAACGTC CGTCGCCTTG

4151 CCCCCACCTG GCGACAGGTG CCTCTGCGGC CAAAAGCCAC GTGTATAAGA
GGGGGTGGAC CGCTGTCCAC GGAGACGCCG GTTTTCGGTG CACATATTCT

4201 TACACCTGCA AAGGCGGCAC AACCCCACTG CCACGTTGTG AGTTGGATAG
ATGTGGACGT TTCCGCCGTG TTGGGGTCAC GGTGCAACAC TCAACCTATC

4251 TTGTGGAAAG AGTCAAATGG CTCTCCTCAA GCGTATTCAA CAAGGGGCTG
AACACCTTTC TCAGTTTACC GAGAGGAGTT CGCATAAGTT GTTCCCCGAC

4301 AAGGATGCCC AGAAGGTACC CCATTGTATG GGATCTGATC TGGGGCCTCG
TTCCTACGGG TCTTCCATGG GGTAAACATAC CCTAGACTAG ACCCCGGAGC

4351 GTGCACATGC TTTACATGTG TTTAGTCGAG GTTAAAAAAC GTCTAGGCCC
CACGTGTACG AAATGTACAC AAATCAGCTC CAATTTTTTG CAGATCCGGG

4401 CCCGAACCAC GGGGACGTGG TTTTCCTTTG AAAAACACGA TGATAATACC
GGGCTTGGTG CCCCTGCACC AAAAGGAAAC TTTTGTGCT ACTATTATGG

4451 ATGAAAAAGC CTGAACTCAC CGCGACGTCT GTCGAGAAGT TTCTGATCGA
TACTTTTTTCG GACTTGAGTG GCGCTGCAGA CAGCTCTTCA AAGACTAGCT

4501 AAAGTTCGAC AGCGTCTCCG ACCTGATGCA GCTCTCGGAG GGCGAAGAAT
TTTCAAGCTG TCGCAGAGGC TGGACTACGT CGAGAGCCTC CCGCTTCTTA

4551 CTCGTGCTTT CAGCTTCGAT GTAGGAGGGC GTGGATATGT CCTGCGGGTA
GAGCACGAAA GTCGAAGCTA CATCCTCCCG CACCTATACA GGACGCCCAT

4601 AATAGCTGCG CCGATGGTTT CTACAAAGAT CGTTATGTTT ATCGGCACTT
TTATCGACGC GGCTACCAAA GATGTTTCTA GCAATACAAA TAGCCGTGAA

4651 TGCATCGGCC GCGCTCCCGA TTCCGGAAGT GCTTGACATT GGGGAATTTA
~~ACGTAGCEGG CGGGAGGGCT AAGGCCTTCA CGAACTGTAA CCCCTTAAAT~~

4701 GCGAGAGCCT GACCTATTGC ATCTCCCGCC GTGCACAGGG TGTACGTTG
CGCTCTCGGA CTGGATAACG TAGAGGGCGG CACGTGTCCC ACAGTGCAAC

FIG. 12F

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4751 CAAGACCTGC CTGAAACCGG ~~TTATCTCCGCT~~ GTTCTGCAGC CGGTTCGCGGA
GTTCTGGACG GACTTTGGCT TGACGGGCGA CAAGACGTCG GCCAGCGCCT

4801 GGCCATGGAT GCGATCGCTG CGGCCGATCT TAGCCAGACG AGCGGGTTTCG
CCGGTACCTA CGCTAGCGAC GCCGGCTAGA ATCGGTCTGC TCGCCCAAGC

4851 GCCCATTTCG ACCGCAAGGA ATCGGTCAAT AACTACATG GCGTGATTTC
CGGGTAAGCC TGCGTTTCCT TAGCCAGTTA TGTGATGTAC CGCACTAAAG

4901 ATATGCGCGA TTGCTGATCC CCATGTGTAT CACTGGCAAA CTGTGATGGA
TATACGCGCT AACGACTAGG GGTACACATA GTGACCGTTT GACACTACCT

4951 CGACACCGTC AGTGCCTCCG TCGCGCAGGC TCTCGATGAG CTGATGCTTT
GCTGTGGCAG TCACGCAGGC AGCGCGTCCG AGAGCTACTC GACTACGAAA

5001 GGGCCGAGGA CTGCCCCGAA GTCCGGCACC TCGTGCACGC GGATTTCGGC
CCCGGCTCCT GACGGGGCTT CAGGCCGTGG AGCACGTGCG CCTAAAGCCG

5051 TCCAACAATG TCCTGACGGA CAATGGCCGC ATAACAGCGG TCATTGACTG
AGGTTGTTAC AGGACTGCCT GTTACGGCGG TATTGTCGCC AGTAACTGAC

5101 GAGCGAGGCG ATGTTCTGGG ATTCCCAATA CGAGGTCGCC AACATCTTCT
CTCGCTCCGC TACAAGCCCC TAAGGGTTAT GCTCCAGCGG TTGTAGAAGA

5151 TCTGGAGGCC GTGGTTGGCT TGTATGGAGC AGCAGACGCG CTA CTCTCGAG
AGACCTCCGG CACCAACCGA ACATACCTCG TCGTCTGCGC GATGAAGCTC

5201 CGGAGGCATC CGGAGCTTGC AGGATCGCCG CGGCTCCGGG CGTATATGCT
GCCTCCGTAG GCCTCGAACG TCCTAGCGGC GCCGAGGCC GCATATACGA

5251 CCGCATTGGT CTTGACCAAC TCTATCAGAG CTTGGTTGAC GGCAATTTTCG
GGCGTAACCA GAACTGGTTG AGATAGTCTC GAACCAACTG CCGTTAAAGC

5301 ATGATGCAGC TTGGGCGCAG GGTGATGCG ACGCAATCGT CCGATCCGGA
TACTACGTCG AACCCGCGTC CCAGCTACGC TGCGTTAGCA GGCTAGGCCT

5351 GCCGGGACTG TCGGGCGTAC ACAAATCGCC CGCAGAAGCG CGGCCGTCTG
CGGCCCTGAC AGCCCGCATG TGTTTAGCGG GCGTCTTCGC GCCGGCAGAC

5401 GACCGATGGC TGTGTAGAAG TACTCGCCGA TAGTGGAAC CGACGCCCCA
CTGGCTACCG ACACATCTTC ATGAGCGGCT ATCACCTTTG GCTGCGGGGT

5451 GCACTCGTCC GAGGGCAAAG GAATAGAGTA GATGCCGACC GGGATCTATC
CGTGAGCAGG CTCCCGTTTC CTTATCTCAT CTACGGCTGG CCCTAGATAG

5501 GATAAAATAA AAGATTTTAT TTAGTCTCCA GAAAAAGGGG GGAATGAAAG
CTATTTTATT TTCTAAAATA AATCAGAGGT CTTTTTCCCC CCTTACTTTC

5551 ACCCCACCTG TAGGTTTGGC AAGCTAGCTT AAGTAACGCC ATTTTGCAAG
TGGGGTGGAC ATCCAAACCG TTCGATCGAA TTCATTGCGG TAAAACGTTC

5601 GCATGGAAAA ATACATAACT GAGAATAGAG AAGTTCAGAT CAAGGTCAGG
~~CGTACCTTTT TATGTATTGA CTCTTATCTC TTCAAGTCTA GTTCCAGTCC~~

5651 AACAGATGGA ACAGCTGAAT ATGGGCCAAA CAGGATATCT GTGGTAAGCA
TTGTCTACCT TGTCGACTTA TACCCGGTTT GTCCTATAGA CACCATTCTG

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FIG. 12C

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5701 GTTCCTGCCC CGGCTCAGGG ~~CGAAGGTCAG~~ ATGGAACAGC TGAATATGGG
CAAGGACGGG GCCGAGTCCC GGTTCCTTGTC TACCTTGTCG ACTTATACCC

5751 CCAAACAGGA TATCTGTGGT AAGCAGTTCC TGCCCCGGCT CAGGGCCAAG
GGTTTGTCTT ATAGACACCA TTCGTCAAGG ACGGGGCCGA GTCCCGGTTC

5801 AACAGATGGT CCCCAGATGC GGTCCAGCCC TCAGCAGTTT CTAGAGAACC
TTGTCTACCA GGGGTCTACG CCAGGTCGGG AGTCGTCAAA GATCTCTTGG

5851 ATCAGATGTT TCCAGGGTGC CCCAAGGACC TGAAATGACC CTGTGCCTTA
TAGTCTACAA AGGTCCCACG GGGTTCCTGG ACTTTACTGG GACACGGAAT

5901 TTTGAACTAA CCAATCAGTT CGCTTCTCGC TTCTGTTTCG CCGCTTCTGC
AAACTTGATT GGTTAGTCAA GCGAAGAGCG AAGACAAGCG CGCGAAGACG

5951 TCCCCGAGCT CAATAAAAGA GCCACAACC CCTCACTCGG GCGCCAGTC
AGGGGCTCGA GTTATTTTCT CGGGTGTTGG GGAGTGAGCC CCGCGGTCAG

6001 CTCCGATTGA CTGAGTCGCC CGGGTACCCG TGTATCCAAT AAACCCTCTT
GAGGCTAACT GACTCAGCGG GCCCATGGGC ACATAGGTTA TTTGGGAGAA

6051 GCAGTTGCAT CCGACTTGTT GTCTCGCTGT TCCTTGGGAG GGTCTCTCTT
CGTCAACGTA GGCTGAACAC CAGAGCGACA AGGAACCCTC CCAGAGGAGA

6101 GAGTGATTGA CTACCCGTCA GCGGGGGTCT TTCATTTCAT CAGCATGTAT
CTCCTAACT GATGGGCAGT CGCCCCAGA AAGTAAGTAC GTCGTACATA

6151 CAAAATTAAT TTGGTTTTTT TTCTTAAGTA TTTACATTAA ATGGCCATAG
GTTTTAATTA AACCAAAAAA AAGAATTCAT AAATGTAATT TACCGGTATC

6201 TTGCATTAAT GAATCGGCCA ACGCGCGGGG AGAGGCGGTT TCGGTATTGG
AACGTAATTA CTTAGCCGGT TCGCGGCCCC TCTCCGCCAA ACGCATAACC

6251 CGCTCTTCCG CTTCTCTCGT CACTGACTCG CTGCGCTCGG TCGTTCGGCT
GCGAGAAGGC GAAGGAGCGA GTGACTGAGC GACGCGAGCC AGCAAGCCGA

6301 GCGGCGAGCG GTATCAGCTC ACTCAAAGGC GGTAATACGG TTATCCACAG
CGCCGCTCGC CATAGTCGAG TGAGTTTCCG CCATTATGCC AATAGGTGTC

6351 AATCAGGGGA TAACGCAGGA AAGAACATGT GAGCAAAAGG CCAGCAAAAG
TTAGTCCCCT ATTGCGTCCT TTCTTGTACA CTCGTTTTCC GGTCGTTTC

6401 GCCAGGAACC GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC ATAGGCTCCG
CGGTCTTGG CATTMTTCCG GCGCAACGAC CGCAAAAAGG TATCCGAGGC

6451 CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA
GGGGGACTG CTCGTAGTGT TTTTAGCTGC GAGTTCAGTC TCCACCGCTT

6501 ACCCGACAGG ACTATAAAGA TACCAGGCGT TTCCCCCTGG AAGCTCCCTC
TGGGCTGTCC TGATATTCT ATGGTCCGCA AAGGGGGACC TTCGAGGGAG

6551 GTGCGCTCTC CTGTTCCGAC CCTGCCGCTT ACCGGATACC TGTCCGCCTT
~~CACGCGAGAG GACAAGGCTG GGACGGCGAA TGGCCTATGG ACAGGCGGAA~~

6601 TCTCCCTTCG GGAAGCGTGG CGCTTTCTCA TAGCTCACGC TGTAGGTATC
AGAGGGAAGC CCTTCGCACC GCGAAAGAGT ATCGAGTGCG ACATCCATAG

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FIG. 12H



6651 TCAGTTCGGT GTAGGCTTCCCAAGC TGGGCTGTGT GCACGAACCC
AGTCAAGCCA CATCCAGCAA GCGAGGTTTCG ACCCGACACA CGTGCTTGGG

6701 CCCGTTTCAGC CCGACCGCTG CGCCTTATCC GGTAACATC GTCTTGAGTC
GGGCAAGTCG GGCTGGCGAC GCGGAATAGG CCATTGATAG CAGAACTCAG

6751 CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA
GTTGGGCCAT TCTGTGCTGA ATAGCGGTGA CCGTCGTCGG TGACCATTGT

6801 GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG
CCTAATCGTC TCGCTCCATA CATCCGCCAC GATGTCTCAA GAACTTCACC

6851 TGGCCTAACT ACGGCTACAC TAGAAGAACA GTATTTGGTA TCTGCGCTCT
ACCGGATTGA TGCCGATGTG ATCTTCTTGT CATAAACCAT AGACGCGAGA

6901 GCTGAAGCCA GTTACCTTCG GAAAAAGAGT TGGTAGCTCT TGATCCGGCA
CGACTTCGGT CAATGGAAGC CTTTTTCTCA ACCATCGAGA ACTAGGCCGT

6951 AACAAACCAC CGCTGGTAGC GGTGGTTTTT TTGTTTGCAA GCAGCAGATT
TTGTTTGGTG GCGACCATCG CCACCAAAAA AACAAACGTT CGTCGTCTAA

7001 ACGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT TTTCTACGGG
TGCGCGTCTT TTTTCTCTAG AGTTCTTCTA GGAACTAGA AAAGATGCCC

7051 GTCTGACGCT CAGTGGAACG AAAACTCAGC TTAAGGGATT TTGGTCATGA
CAGACTGCGA GTCACCTTGC TTTTGAGTGC AATTCCCTAA AACCAGTACT

7101 GATTATCAAA AAGGATCTTC ACCTAGATCC TTTTAAATTA AAAATGAAGT
CTAATAGTTT TTCCTAGAAG TGGATCTAGG AAAATTTAAT TTTTACTTCA

7151 TTGCGGCCGC AAATCAATCT AAAGTATATA TGAGTAACT TGGTCTGACA
AACGCCGGCG TTTAGTTAGA TTTTCATATAT ACTCATTTGA ACCAGACTGT

7201 GTTACCAATG CTTAATCAGT GAGGCACCTA TCTCAGCGAT CTGTCTATTT
CAATGGTTAC GAATTAGTCA CTCCGTGGAT AGAGTCGCTA GACAGATAAA

7251 CGTTCATCCA TAGTTGCCTG ACTCCCGTGC GTGTAGATAA CTACGATACG
GCAAGTAGGT ATCAACGGAC TGAGGGGCGAG CACATCTATT GATGCTATGC

7301 GGAGGGGCTTA CCATCTGGCC CCAGTGCTGC AATGATACCG CGAGACCCAC
CCTCCCGAAT GGTAGACCGG GGTCACGACG TTACTATGGC GCTCTGGGTG

7351 GCTCACCAGC TCCAGATTTA TCAGCAATAA ACCAGCCAGC CGGAAGGGCC
CGAGTGCCCG AGGTCTAAAT AGTCGTTATT TGGTCGGTCG GCCTTCCCGG

7401 GAGCGCAGAA GTGGTCTGC AACTTTATCC GCCTCCATCC AGTCTATTAA
CTCGCGTCTT CACCAGGACG TTGAAATAGG CGGAGGTAGG TCAGATAATT

7451 TTGTTGCCGG GAAGCTAGAG TAAGTAGTTC GCCAGTTAAT AGTTTGCGCA
AACAACGGCC CTTGATCTC ATTCATCAAG CGGTCAATTA TCAAACGCGT

7501 ACGTTGTTGC CATTGCTACA GGCATCGTGG TGTCACGCTC GTCGTTTGGT
~~TGCAACAAGG~~ ~~GTAACGATGT~~ ~~CCGTAGCACC~~ ~~ACAGTGCGAG~~ ~~CAGCAAACCA~~

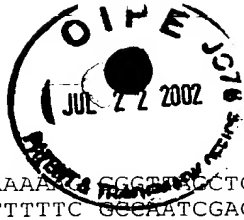
7551 ATGGCTTCAT TCAGCTCCGG TTCCCAACGA TCAAGGCGAG TTACATGATC
TACCGAAGTA AGTCGAGGCC AAGGGTTGCT AGTTCCGCTC AATGTACTAG

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FIG. 12I

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7601 CCCCATGTTG TGCAAAAAA CCGTATCTC CTTCCGGTCCT CCGATCGTTG
GGGGTACAAC ACGTTTTTTC CCAATCGAG GAAGCCAGGA GGCTAGCAAC

7651 TCAGAAGTAA GTTGGCCGCA GTGTTATCAC TCATGGTTAT GGCAGCACTG
AGTCTTCATT CAACCGGCGT CACAATAGTG AGTACCAATA CCGTCGTGAC

7701 CATAATTCTC TTA CTGTCAT GCCATCCGTA AGATGCTTTT CTGTGACTGG
GTATTAAGAG AATGACAGTA CGGTAGGCAT TCTACGAAAA GACACTGACC

7751 TGAGTACTCA ACCAAGTCAT TCTGAGAATA GTGTATGCGG CGACCGAGTT
ACTCATGAGT TGGTTCAGTA AGACTCTTAT CACATACGCC GCTGGCTCAA

7801 GCTCTTGCCC GCGGTCAATA CGGGATAATA CCGCGCCACA TAGCAGAACT
CGAGAACGGG CCGCAGTTAT GCCCTATTAT GCGCGGGTGT ATCGTCTTGA

7851 TTAAAAGTGC TCATCATTGG AAAACGTTCT TCGGGGCGAA AACTCTCAAG
AATTTTCACG AGTAGTAACC TTTTGCAAGA AGCCCCGCTT TTGAGAGTTC

7901 GATCTTACCG CTGTTGAGAT CCAGTTCGAT GTAACCCACT CGTGCACCCA
CTAGAATGGC GACAACTCTA GGTCAAGCTA CATTGGGTGA GCACGTGGGT

7951 ACTGATCTTC AGCATCTTTT ACTTTCACCA GCGTTTCTGG GTGAGCAAAA
TGACTAGAAG TCGTAGAAAA TGAAAGTGGT CGCAAAGACC CACTCGTTTT

8001 ACAGGAAGGC AAAATGCCGC AAAAAAGGGA ATAAGGGCGA CACGGAAATG
TGTCTTCCG TTTTACGGCG TTTTTCCT TATTCCCGCT GTGCCTTTAC

8051 TTGAATACTC ATACTCTTCC TTTTCAATA TTATTGAAGC ATTTATCAGG
AACTTATGAG TATGAGAAGG AAAAAGTTAT AATAACTTCG TAAATAGTCC

8101 GTTATTGTCT CATGAGCGGA TACATATTTG AATGTATTTA GAAAAATAAA
CAATAACAGA GTACTCGCCT ATGTATAAAC TTACATAAAT CTTTTTATTT

8151 CAAATAGGGG TTCCGCGCAC ATTTT
GTTTATCCCC AAGGCGCGTG TAAAG

FIG. 12J

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951 TCCCTTAAGT TTGACCTT TTAAGTAA AGATGTCGAG CGGCTCGCTC
AGGGAATTCA AACTGGAATC TCTACAGCTC GCCGAGCGAG

1001 ACAACCAGTC GGTAGATGTC AAGAAGAGAC GTTGGGTTAC CTTCTGCTCT
TGTTGGTCAG CCATCTACAG TTCTTCTCTG CAACCCAATG GAAGACGAGA

1051 GCAGAATGGC CAACCTTTAA CGTCGGATGG CCGCGAGACG GCACCTTTAA
CGTCTTACCG GTTGGAAATT GCAGCCTACC GGCCTCTGTC CGTGGAAATT

1101 CCGAGACCTC ATCACCAGG TTAAGATCAA GGTCTTTTCA CCTGGCCCGC
GGCTCTGGAG TAGTGGGTCC AATTCTAGTT CCAGAAAAGT GGACCGGGCG

1151 ATGGACACCC AGACCAGGTC CCCTACATCG TGACCTGGA AGCCTTGGCT
TACCTGTGGG TCTGGTCCAG GGGATGTAGC ACTGGACCCT TCGGAACCGA

1201 TTTGACCCCC CTCCCTGGGT CAAGCCCTTT GTACACCCTA AGCCTCCGCC
AAACTGGGGG GAGGGACCCA GTTCGGGAAA CATGTGGGAT TCGGAGGCGG

1251 TCCTCTTCCT CCATCCGCC CGTCTCTCCC CCTTGAACCT CCTCGTTCGA
AGGAGAAGGA GGTAGGCGGG GCAGAGAGGG GGAACCTGGA GGAGCAAGCT

1301 CCCCCTCTCG ATCCTCCCTT TATCCAGCCC TCACTCCTTC TCTAGGCGCC
GGGGCGGAGC TAGGAGGGAA ATAGGTCGGG AGTGAGGAAG AGATCCGCGG

1351 GGCCGCTCTA GCCCATTAAT ACGACTCACT ATAGGGCGAT TCGAACACCA
CCGGCGAGAT CGGGTAATTA TGCTGAGTGA TATCCCGCTA AGCTTGTGGT

1401 TGCACCATCA TCATCATCAC GTCGACGAAC AGAACTCAT TTCCGAAGAA
ACGTGGTAGT AGTAGTAGTG CAGCTGCTTG TCTTTGAGTA AAGGCTTCTT

1451 GACCTACTCG AGATGGGCGT GATTACGGAT TCACTGGCCG TCGTTTTACA
CTGGATGAGC TCTACCCGCA CTAATGCCTA AGTGACCGGC AGCAAAATGT

1501 ACGTCGTGAC TGGGAAAACC CTGGCGTTAC CCAACTTAAT CGCCTTGCGAG
TGCAGCACTG ACCCTTTTGG GACCGCAATG GGTGAATTA GCGGAACGTC

1551 CACATCCCCC TTTCCGCCAGC TGGCGTAATA GCGAAGAGGC CCGCACCGAT
GTGTAGGGGG AAAGCGGTCTG ACCGCATTAT CGCTTCTCCG GGCCTGGCTA

1601 CGCCCTTCCC AACAGTTACG CAGCCTGAAT GCGGAATGGC GCTTTGCCTG
GCGGAAGGG TTGTCAATGC GTCGGACTTA CCGCTTACCG CGAAACGGAC

1651 GTTTCCGGCA CCAGAAGCGG TGCCGGAAG CTGGCTGGAG TGCGATCTTC
CAAAGGCCGT GGTCTTCGCC ACGGCCTTTC GACCGACCTC ACGCTAGAAG

1701 CTGAGGCCGA TACTGTCGTC GTCCCTCAA ACTGGCAGAT GCACGGTTAC
GACTCCGGCT ATGACAGCAG CAGGGGAGTT TGACCGTCTA CGTGCCAATG

1751 GATGCGCCCA TCTACACCAA CGTGACCTAT CCCATTACGG TCAATCCGCC
CTACGCGGGT AGATGTGGTT GCACTGGATA GGGTAATGCC AGTTAGGCGG

1801 GTTTGTTCCC ACGGAGAATC CGACGGGTTG TTAICTGCTC ACATTTAATG
CAAACAAGGG TGCTCTTAG GTCGCCAAC AATGAGCGAG TGTAATTAC

1851 TTGATGAAAG CTGGCTACAG GAAGGCCAGA CGCGAATTAT TTTGATGGC
AACTACTTTC GACCGATGTC CTTCCGGTCT GCGCTTAATA AAACTACCG

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FIG. 13C

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1901 GTTAACTCGG CGTTTCATCT GTGGTGCAAC GGGCGCTGGG TCGGTTACGG
CAATTGAGCC GCAAAGTAGA CACCACGTTG CCCGCGACCC AGCCAATGCC

1951 CCAGGACAGT CGTTTGCCGT CTGAATTTGA CCTGAGCGCA TTTTACGCG
GGTCCTGTCA GCAAACGGCA GACTTAACT GGACTCGCGT AAAAATGCGC

2001 CCGGAGAAAA CCGCCTCGCG GTGATGGTGC TGCCTGGAG TGACGGCAGT
GGCCTCTTTT GGCAGGAGCG CACTACCACG ACGCGACCTC ACTGCCGTCA

2051 TATCTGGAAG ATCAGGATAT GTGGCGGATG AGCGGCATTT TCCGTGACGT
ATAGACCTTC TAGTCCTATA CACCGCCTAC TCGCCGTAAAG AGGCACTGCA

2101 CTCGTTGCTG CATAAACCGA CTACACAAAT CAGCGATTTT CATGTTGCCA
GAGCAACGAC GTATTTGGCT GATGTGTTTA GTCGCTAAAG GTACAACGGT

2151 CTCGCTTTAA TGATGATTTT AGCCGCGCTG TACTGGAGGC TGAAGTTCAG
GAGCGAAATT ACTACTAAAG TCGGCGCGAC ATGACCTCCG ACTTCAAGTC

2201 ATGTGCGGCG AGTTGCGTGA CTACCTACGG GTAACAGTTT CTTTATGGCA
TACACGCCGC TCAACGCACT GATGGATGCC CATTGTCAA GAAATACCGT

2251 GGGTGAAACG CAGGTCGCCA GCGGCACCGC GCCTTTCGGC GGTGAAATTA
CCCACTTTGC GTCCAGCGGT CGCCGTGGCG CGGAAAGCCG CCACTTTAAT

2301 TCGATGAGCG TGGTGTTTAT GCCGATCGCG TCACACTACG TCTGAACGTC
AGCTACTCGC ACCACCAATA CGGCTAGCGC AGTGTGATGC AGACTTGCAG

2351 GAAAACCCGA AACTGTGGAG CGCCGAAATC CCGAATCTCT ATCGTGCGGT
CTTTTGGGCT TTGACACCTC GCGGCTTTAG GGCTTAGAGA TAGCACGCCA

2401 GGTGAACTG CACACCGCCG ACGGCACGCT GATTGAAGCA GAAGCCTGCG
CCAACCTGAC GTGTGGCGGC TGCCGTGCGA CTAACCTCGT CTTGCGACGC

2451 ATGTGCGTTT CCGCGAGGTG CGGATTGAAA ATGGTCTGCT GCTGCTGAAC
TACAGCCAAA GGCCTCCAC GCCTAACTTT TACCAGACGA CGACGACTTG

2501 GGCAAGCCGT TGCTGATTCG AGGCGTTAAC CGTCACGAGC ATCATCCTCT
CCGTTGCGCA ACGACTAAGC TCCGCAATTG GCAGTGCTCG TAGTAGGAGA

2551 GCATGGTCAG GTCATGGATG AGCAGACGAT GGTGCAGGAT ATCCTGCTGA
CGTACCAGTC CAGTACCTAC TCGTCTGCTA CCACGTCCTA TAGGACGACT

2601 TGAAGCAGAA CAACTTTAAC GCCGTGCGCT GTTCGCATTA TCCGAACCAT
ACTTCGTCTT GTTGAAATTG CGGCACGCGA CAAGCGTAAT AGGCTTGGA

2651 CCGCTGTGGT ACACGCTGTG CGACCGCTAC GGCCTGTATG TGGTGATGA
GGCGACACCA TGTGCGACAC GCTGGCGATG CCGGACATAC ACCACCTACT

2701 AGCCAATATT GAAACCCACG GCATGGTGCC AATGAATCGT CTGACCGATG
TCGGTTATAA CTTTGGGTGC CGTACCACGG TTAAGTAGCA GACTGGCTAC

2751 ATCCGCGCTG GCTACCGGCG ATGAGCGAAC GCGTAACGCG AATGGTGCG
TAGGCGCGAC CGATGGCCGC TACTCGCTTG CGCATTGCGC TTACCACGTC

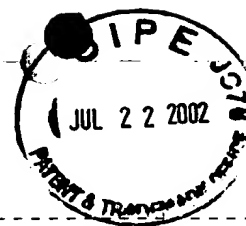
2801 CGCGATCGTA ATCACCCGAG TGTGATCATC TGGTCGCTGG GGAATGAATC
GCGCTAGCAT TAGTGGGCTC ACACAGTAG ACCAGCGACC CCTTACTTAG

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FIG. 13 D

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2851 AGGCCACGGC GCTAATCACG ACGCGCTGTA TCGCTGGATC AAATCTGTCG
TCCGGTGCCG CGATTAGTGC TGC GCGACAT AGCGACCTAG TTTAGACAGC

2901 ATCCTTCCCG CCCGGTGCAG TATGAAGGCG GCGGAGCCGA CACCACGGCC
TAGGAAGGGC GGGCCACGTC ATACTTCCGC CGCCTCGGCT GTGGTGCCGG

2951 ACCGATATTA TTTGCCCCGAT GTACGCGCGC GTGGATGAAG ACCAGCCCTT
TGGCTATAAT AAACGGGGCTA CATGCGCGCG CACCTACTTC TGGTCGGGAA

3001 CCCGGCTGTG CCGAAATGGT CCATCAAAAA ATGGCTTTTCG CTACCTGGAG
GGGCCGACAC GGCTTTACCA GGTAGTTTTT TACCGAAAGC GATGGACCTC

3051 AGACGCGCCC GCTGATCCTT TGC GAATACG CCCACGCGAT GGGTAACAGT
TCTGCGCGGG CGACTAGGAA ACGCTTATGC GGGTGCGCTA CCCATTGTCA

3101 CTTGGCGGTT TCGCTAAATA CTGGCAGGCG TTTCGTCACT ATCCCCGTTT
GAACCGCCAA AGCGATTTAT GACCGTCCGC AAAGCAGTCA TAGGGGCAAA

3151 ACAGGGCGGC TTCGTCTGGG ACTGGGTGGA TCAGTCGCTG ATTAAATATG
TGTCCCGCCG AAGCAGACCC TGACCCACCT AGTCAGCGAC TAATTTATAC

3201 ATGAAAACGG CAACCCGTGG TCGGCTTACG GCGGTGATTT TGGCGATACG
TACTTTTGCC GTTGGGCACC AGCCGAATGC CGCCACTAAA ACCGCTATGC

3251 CCGAACGATC GCCAGTTCTG TATGAACGGT CTGGTCTTTG CCGACCGCAC
GGCTTGCTAG CGGTCAAGAC ATACTTGCCA GACCAGAAAC GGCTGGCGTG

3301 GCCGCATCCA GCGCTGACGG AAGCAAAACA CCAGCAGCAG TTTTCCAGT
CGGCGTAGGT CGCGACTGCC TTCGTTTTGT GGTCGTCGTC AAAAAGGTCA

3351 TCCGTTTATC CGGGCAAACC ATCGAAGTGA CCAGCGAATA CCTGTTCCGT
AGGCAAATAG GCGCGTTTGG TAGCTTCACT GGTCGCTTAT GGACAAGGCA

3401 CATAGCGATA ACGAGCTCCT GCACTGGATG GTGGCGCTGG ATGGTAAGCC
GTATCGCTAT TGCTCGAGGA CGTGACCTAC CACCGCGACC TACCATTCCG

3451 GCTGGCAAGC GGTGAAGTGC CTCTGGATGT CGCTCCACAA GGTAACAGT
CGACCGTTCG CCACTTCACG GAGACCTACA GCGAGGTGTT CCATTTGTCA

3501 TGATTGAACT GCCTGAACTA CCGCAGCCGG AGAGCGCCGG GCAACTCTGG
ACTAACTTGA CGGACTTGAT GCGCTCGGCC TCTCGCGGCC CGTTGAGACC

3551 CTCACAGTAC GCGTAGTGCA ACCGAACGCG ACCGCATGGT CAGAAGCCGG
GAGTGTCATG CGCATCACGT TGGCTTGCGC TGGCGTACCA GTCTTCGGCC

3601 GCACATCAGC GCCTGGCAGC AGTGGCGTCT GCGGGAAC CTCAGTGTGA
CGTGTAGTCG CGGACCGTCG TCACCGCAGA CCGCCTTTTG GAGTCACACT

3651 CGCTCCCCGC CGCGTCCCAC GCCATCCCGC ATCTGACCAC CAGCGAAATG
GCGAGGGGCG GCGCAGGGTG CGGTAGGGCG TAGACTGGTG GTCGCTTTAC

3701 GATTTTTGCA TCGAGCTGGG TAATAAGCGT TGGCAATTTA ACCGCCAGTC
~~CTAAAAACGT AGCTEGAGCG ATATTGCGA ACCGTTAAAT TGGCGGTCAG~~

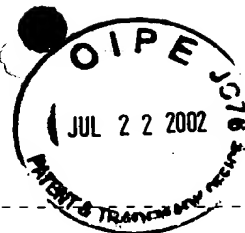
3751 AGGCTTTCTT TCACAGATGT GGATTGGCGA TAAAAAACAA CTGCTGACGC
TCCGAAAGAA AGTGTCTACA CCTAACCGCT ATTTTTTGTG GACGACTGCG

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FIG. 13E

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3801 CGCTGCGCGA TCAGTTCACC CGTGTGCGATA GATCTGGAGG TGGTGGCAGC
    GCGACGCGCT AGTCAAGTGG GCACAGCTAT CTAGACCTCC ACCACCGTCG
-----
3851 AGGCCTTGGC GCGCCGGATC CTTAATTAAC AATTGACCGG TAATAATAGG
    TCCGGAACCG CGCGGCCTAG GAATTAATTG TTAAGTGGCC ATTATTATCC
-----
3901 TAGATAAGTG ACTGATTAGA TGCATTTTCA CTAGATCCCT CGACCAATTC
    ATCTATTACAC TGAATAATCT ACGTAAAGCT GATCTAGGGA GCTGGTTAAG
-----
3951 CGGTTATTTT CCACCATATT GCCGTCTTTT GGCAATGTGA GGGCCCGGAA
    GCCAATAAAA GGTGGTATAA CGGCAGAAAA CCGTTACACT CCCGGGCCTT
-----
4001 ACCTGGCCCT GTCTTCTTGA CGAGCATTCC TAGGGGTCTT TCCCCTCTCG
    TGGACCGGGA CAGAAGAACT GCTCGTAAGG ATCCCCAGAA AGGGGAGAGC
-----
4051 CCAAAGGAAT GCAAGGTCTG TTGAATGTCTG TGAAGGAAGC AGTTCCTCTG
    GGTTCCTTA CGTTCCAGAC AACTTACAGC ACTTCCTTCG TCAAGGAGAC
-----
4101 GAAGCTTCTT GAAGACAAAC AACGTCTGTA GCGACCCTTT GCAGGCAGCG
    CTTCAAGAA CTTCTGTTT TGCAGACAT CGCTGGGAAA CGTCCGTCTCG
-----
4151 GAACCCCCCA CCTGGCGACA GGTGCCTCTG CGGCCAAAAG CCACGTGTAT
    CTTGGGGGGT GGACCGCTGT CCACGGAGAC GCCGGTTTTT GGTGCACATA
-----
4201 AAGATACACC TGCAAAGGCG GCACAACCCC AGTGCCACGT TGTGAGTTGG
    TTCTATGTGG ACGTTTCCGC CGTGTGGGG TCACGGTGCA AACTCAACC
-----
4251 ATAGTTGTGG AAAGAGTCAA ATGGCTCTCC TCAAGCGTAT TCAACAAGGG
    TATCAACACC TTTCTCAGTT TACCGAGAGG AGTTCGCATA AGTTGTTCCC
-----
4301 GCTGAAGGAT GCCCAGAAGG TACCCCATTTG TATGGGATCT GATCTGGGGC
    CGACTTCCTA CGGGTCTTCC ATGGGGTAAC ATACCCTAGA CTAGACCCCG
-----
4351 CTCGGTGCAC ATGCTTTTACA TGTGTTTAGT CGAGGTAAA AAACGTCTAG
    GAGCCACGTG TACGAAATGT ACACAAATCA GCTCCAATTT TTTGCAGATC
-----
4401 GCCCCCCGAA CCACGGGGAC GTGGTTTTCC TTTGAAAAAC ACGATGATAA
    CGGGGGGCTT GGTGCCCTG CACCAAAGG AAACTTTTT TGCTACTATT
-----
4451 TACCATGAAA AAGCCTGAAC TCACCGCGAC GTCTGTCGAG AAGTTTCTGA
    ATGGTACTTT TTCGACTTG AGTGCGCTG CAGACAGCTC TTCAAAGACT
-----
4501 TCGAAAAGTT CGACAGCGTC TCCGACCTGA TGCAGCTCTC GGAGGGCGAA
    AGCTTTTCAA GCTGTGCGAG AGGCTGGACT ACGTCGAGAG CCTCCCGCTT
-----
4551 GAATCTCGTG CTTTCAGCTT CGATGTAGGA GGGCGTGGAT ATGTCCTGCG
    CTTAGAGCAC GAAAGTCGAA GCTACATCCT CCCGCACCTA TACAGGACGC
-----
4601 GGTAATAGC TGCGCCGATG GTTTCTACAA AGATCGTTAT GTTTATCGGC
    CCATTTATCG ACGCGGCTAC CAAAGATGTT TCTAGCAATA CAAATAGCCG
-----
4651 ACTTTGCATC GGCCGCGCTC CCGATTCCGG AAGTGCTTGA CATTGGGGAA
    TGAACGCTAG CCGGCGCGAG GGCTAAGGCC TTCACGAAGT GTAACCCCTT
-----
4701 TTAGCGAGA GCCTGACCTA TTGCATCTCC CGCCGTGCAC AGGGTGTAC
    AAATCGCTCT CGGACTGGAT AACGTAGAGG GCGGCACGTG TCCCACAGT

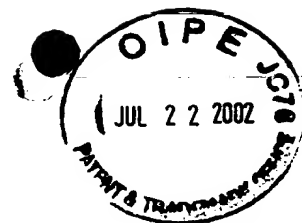
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FIG. 13F

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4751 GTTGCAAGAC CTGCCTGAAA CCGAACTGCC CGCTGTTCTG CAGCCGGTCG
CAACGTTCTG GACGGACTTT GGCTTGACGG GCGACAAGAC GTCGGCCAGC

4801 CGGAGGCCAT GGATGCGATC GCTGCGGCCG ATCTTAGCCA GACGAGCGGG
GCCTCCGGTA CCTACGCTAG CGACGCCGGC TAGAATCGGT CTGCTCGCCC

4851 TTCGGCCCAT TCGGACCGCA AGGAATCGGT CAATACACTA CATGGCGTGA
AAGCCGGGTA AGCCTGGCGT TCCTTAGCCA GTTATGTGAT GTACCGCACT

4901 TTTCATATGC GCGATTGCTG ATCCCCATGT GTATCACTGG CAAACTGTGA
AAAGTATACG CGCTAACGAC TAGGGGTACA CATAGTGACC GTTTGACACT

4951 TGGACGACAC CGTCAGTGCG TCCGTCGCGC AGGCTCTCGA TGAGCTGATG
ACCTGCTGTG GCAGTCACGC AGGCAGCGCG TCCGAGAGCT ACTCGACTAC

5001 CTTTGGGCGG AGGACTGCCC CGAAGTCCGG CACCTCGTGC ACGCGGATTT
GAAACCCGGC TCCTGACGGG GCTTCAGGCC GTGGAGCACG TCGCCTAAA

5051 CGGCTCCAAC AATGTCCTGA CGGACAATGG CCGCATAACA GCGGTCATTG
GCCGAGGTTG TTACAGGACT GCCTGTTACC GGCGTATTGT CGCCAGTAAC

5101 ACTGGAGCGA GGCGATGTTT GGGGATTCCC AATACGAGGT CGCCAACATC
TGACCTCGCT CCGCTACAAG CCCCTAAGGG TTATGCTCCA GCGGTTGTAG

5151 TTCTTCTGGA GGCCGTGGTT GGCTTGTATG GAGCAGCAGA CGCGCTACTT
AAGAAGACCT CCGGCACCAA CCGAACATAC CTCGTCGTCT GCGCGATGAA

5201 CGAGCGGAGG CATCCGGAGC TTGCAGGATC GCCGCGGCTC CGGGCGTATA
GCTCGCCTCC GTAGGCCTCG AACGTCCTAG CGGCGCCGAG GCCCGCATAT

5251 TGCTCCGCAT TGGTCTTGAC CAACTCTATC AGAGCTTGGT TGACGGCAAT
ACGAGGCGTA ACCAGAACTG GTTGAGATAG TCTCGAACCA ACTGCCGTTA

5301 TTCGATGATG CAGCTTGGGC GCAGGGTCGA TGCGACGCAA TCGTCCGATC
AAGCTACTAC GTCGAACCCG CGTCCCAGCT ACGCTGCGTT AGCAGGCTAG

5351 CGGAGCCGGG ACTGTCGGGC GTACACAAAT CGCCCGCAGA AGCGCGGCCG
GCCTCGGCCC TGACAGCCCC CATGTGTTTA GCGGGCGTCT TCGCGCCGGC

5401 TCTGGACCGA TGGCTGTGTA GAAGTACTCG CCGATAGTGG AAACCGACGC
AGACCTGGCT ACCGACACAT CTTATGAGC GGCTATCACC TTTGGCTGCG

5451 CCCAGCACTC GTCCGAGGGC AAAGGAATAG AGTAGATGCC GACCGGGATC
GGGTCGTGAG CAGGCTCCCG TTTCTTATC TCATCTACGG CTGGCCCTAG

5501 TATCGATAAA ATAAAAGATT TTATTTAGTC TCCAGAAAAA GGGGGGAATG
ATAGCTATTT TATTTTCTAA AATAAATCAG AGGTCTTTTT CCCCCCTTAC

5551 AAAGACCCCA CCTGTAGGTT TGGCAAGCTA GCTTAAGTAA CGCCATTTTG
TTTCTGGGGT GGACATCCAA ACCGTTTCGAT CGAATTCATT GCGGTAAAC

5601 CAAGGCATGG AAAAATACAT AACTGAGAAT AGAGAAGTTC AGATCAAGGT
GTTCCGTACC TTTTATGTA TTAGCTCTTA TCTCTCAAG TCTAGTTCCA

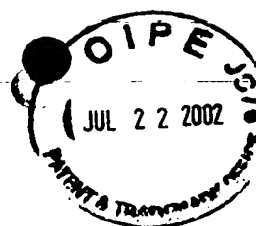
5651 CAGGAACAGA TGGAACAGCT GAATATGGGC CAAACAGGAT ATCTGTGGTA
GTCCTTGTCT ACCTTGTCGA CTTATACCG GTTTGTCCTA TAGACACCAT

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FIG. 13G

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5701 AGCAGTTCCT GCCCGGCTC AGGGCCAAGA ACAGATGGAA CAGCTGAATA
TCGTCAAGGA CGGGGCCGAG TCCCGGTTCT TGTCTACCTT GTCGACTTAT

5751 TGGGCCAAAC AGGATATCTG TGGTAAGCAG TTCCTGCCCC GGCTCAGGGC
ACCCGGTTTG TCCTATAGAC ACCATTCGTC AAGGACGGGG CCGAGTCCCC

5801 CAAGAACAGA TGGTCCCCAG ATGCGGTCCA GCCCTCAGCA GTTTCTAGAG
GTTCTTGTCT ACCAGGGGTC TACGCCAGGT CGGGAGTCGT CAAAGATCTC

5851 AACCATCAGA TGTTTCCAGG GTGCCCAAG GACCTGAAAT GACCCTGTGC
TTGGTAGTCT ACAAAGGTCC CACGGGGTTC CTGGACTTTA CTGGGACACG

5901 CTTATTTGAA CTAACCAATC AGTTCGCTTC TCGCTTCTGT TCGCGCGCTT
GAATAAACTT GATTGGTTAG TCAAGCGAAG AGCGAAGACA AGCGCGCGAA

5951 CTGCTCCCCG AGCTCAATAA AAGAGCCAC AACCCCTCAC TCGGGGCGCC
GACGAGGGGC TCGAGTTATT TTCTCGGGTG TTGGGGAGTG AGCCCCGCGG

6001 AGTCCTCCGA TTGACTGAGT CGCCCGGGTA CCCGTGTATC CAATAAACCC
TCAGGAGGCT AACTGACTCA GCGGGCCCAT GGGCACATAG GTTATTTGGG

6051 TCTTGCA GTT GCATCCGACT TGTGGTCTCG CTGTTCTTG GGAGGGTCTC
AGAACGTCAA CGTAGGCTGA ACACCAGAGC GACAAGGAAC CCTCCAGAG

6101 CTCTGAGTGA TTGACTACCC GTCAGCGGGG GTCTTTCATT CATGCAGCAT
GAGACTCACT AACTGATGGG CAGTCGCCCC CAGAAAGTAA GTACGTCGTA

6151 GTATCAAAAT TAATTTGGTT TTTTTTCTTA AGTATTTACA TTAAATGGCC
CATAGTTTTA ATTAAACCAA AAAAAAGAAT TCATAAATGT AATTTACCGG

6201 ATAGTTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTCGCGTA
TATCAACGTA ATTACTTAGC CGGTTGCGCG CCCCTCTCCG CCAAACGCAT

6251 TTGGCGCTCT TCCGCTTCCT CGCTCACTGA CTCGCTGCGC TCGGTGCTTC
AACC GCGAGA AGGCGAAGGA GCGAGTGACT GAGCGACGCG AGCCAGCAAG

6301 GGCTGCGGCG AGCGGTATCA GCTCACTCAA AGGCGGTAAT ACGGTTATCC
CCGACGCCGC TCGCCATAGT CGAGTGAGTT TCCGCCATTA TGCCAATAGG

6351 ACAGAATCAG GGGATAACGC AGGAAAGAAC ATGTGAGCAA AAGGCCAGCA
TGTCTTAGTC CCTATTGCG TCCTTTCTTG TACACTCGTT TTCCGGTCTG

6401 AAAGGCCAGG AACC GTAAAA AGGCCGCGTT GCTGGCGTTT TTCCATAGGC
TTCCGGTCC TTGGCATTIT TCCGGCGCAA CGACCGCAA AAGGTATCCG

6451 TCCGCCCCC TGACGAGCAT CACAAAAATC GACGCTCAAG TCAGAGGTGG
AGGCGGGGGG ACTGCTCGTA GTGTTTTTAG CTGCGAGTTC AGTCTCCACC

6501 CGAAACCCGA CAGGACTATA AAGATACCAG GCGTTTCCCC CTGGAAGCTC
GCTTTGGGCT GTCCTGATAT TTCTATGGTC CGCAAAGGGG GACCTTCGAG

6551 CCTCGTGCGC TCTCCTGTTT CGACCCTGCC GCTTACCGGA TACCTGTCCG
GGAGGACGGG AGAGGACAAG GCTGGGACGG CGAATGGCCT ATGGACAGGC

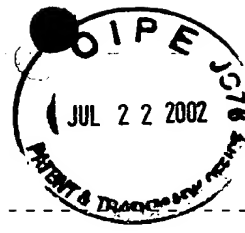
6601 CCTTTCTCCC TTCGGGAAGC GTGGCGCTTT CTCATAGCTC ACGCTGTAGG
GGAAAGAGGG AAGCCCTTCG CACCGCGAAA GAGTATCGAG TGCGACATCC

FIG. 13H

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6651  TATCTCAGTT CGGTGTAGGT CGTTCGCTCC AAGCTGGGCT GTGTGCACGA
      ATAGAGTCAA GCCACATCCA GCAAGCGAGG TTCGACCCGA CACACGTGCT
-----
6701  ACCCCCCGTT CAGCCCCGACC GCTGCGCCTT ATCCGGTAAC TATCGTCTTG
      TGGGGGGCAA GTCGGGCTGG CGACGCGGAA TAGGCCATTG ATAGCAGAAC
-----
6751  AGTCCAACCC GGTAAGACAC GACTTATCGC CACTGGCAGC AGCCACTGGT
      TCAGGTTGGG CCATTCTGTG CTGAATAGCG GTGACCGTCG TCGGTGACCA
-----
6801  AACAGGATTA GCAGAGCGAG GTATGTAGGC GGTGCTACAG AGTTCTTGAA
      TTGTCTAAT CGTCTCGCTC CATACATCCG CCACGATGTC TCAAGAACTT
-----
6851  GTGGTGGCCT AACTACGGCT AACTAGAAAG AACAGTATTT GGTATCTGCG
      CACCACCGGA TTGATGCCGA TGTGATCTTC TTGTCATAAA CCATAGACGC
-----
6901  CTCTGCTGAA GCCAGTTACC TTCGGAAAAA GAGTTGGTAG CTCTTGATCC
      GAGACGACTT CGGTCAATGG AAGCCTTTTT CTCAACCATC GAGAACTAGG
-----
6951  GGCAAAACAAA CCACCGCTGG TAGCGGTGGT TTTTTTGTTT GCAAGCAGCA
      CCGTTTGTTT GGTGGCGACC ATCGCCACCA AAAAAACAAA CGTTCGTCGT
-----
7001  GATTACGCGC AGAAAAAAG GATCTCAAGA AGATCCTTTG ATCTTTTCTA
      CTAATGCGCG TCTTTTTTTC CTAGAGTTCT TCTAGGAAAC TAGAAAAGAT
-----
7051  CGGGGTCTGA CGCTCAGTGG AACGAAACT CACGTTAAGG GATTTTGGTC
      GCCCAGACT GCGAGTCACC TTGCTTTTGA GTGCAATTCC CTAAAACCAG
-----
7101  ATGAGATTAT CAAAAAGGAT CTTACCTAG ATCCTTTTGC GGCCGCAAAT
      TACTCTAATA GTTTTTCCTA GAAGTGGATC TAGGAAAACG CCGGCGTTTA
-----
7151  CAATCTAAAG TATATATGAG TAAACTTGGT CTGACAGTTA CCAATGCTTA
      GTTAGATTTC ATATATACTC ATTTGAACCA GACTGTCAAT GGTACGAAT
-----
7201  ATCAGTGAGG CACCTATCTC AGCGATCTGT CTATTTCTGT CATCCATAGT
      TAGTCACTCC GTGGATAGAG TCGCTAGACA GATAAAGCAA GTAGGTATCA
-----
7251  TGCCTGACTC CCCGTCGTGT AGATAACTAC GATACGGGAG GGCTTACCAT
      ACGGACTGAG GGGCAGCACA TCTATTGATG CTATGCCCTC CCGAATGGTA
-----
7301  CTGGCCCCAG TGCTGCAATG ATACCGCGAG ACCCAGCTC ACCGGCTCCA
      GACCGGGGTC ACGACGTTAC TATGGCGCTC TGGGTGCGAG TGGCCGAGGT
-----
7351  GATTTATCAG CAATAAACCA GCCAGCCGGA AGGGCCGAGC GCAGAAGTGG
      CTAATAGTC GTTATTTGGT CGGTCGGCCT TCCCGGCTCG CGTCTTCACC
-----
7401  TCCTGCAACT TTATCCGCCT CCATCCAGTC TATTAATTGT TGCCGGGAAG
      AGGACGTTGA AATAGGCGGA GGTAGGTCAG ATAATTAACA ACGGCCCTTC
-----
7451  CTAGAGTAAG TAGTTCGCCA GTTAATAGTT TGCGCAACGT TGTTCGCAAT
      GATCTCATTG ATCAAGCGGT CAATTATCAA ACGCGTTGCA ACAACGGTAA
-----
7501  GCTACAGGCA TCGTGGTGTC ACGCTCGTCG TTTGGTATGG CTTTATTGAG
      CGATGTCCGT AGCACCACAG TGCGAGCAGC AAACCATACC GAAGTAAGTC
-----
7551  CTCCGGTTCC CAACGATCAA GGCGAGTTAC ATGATCCCCC ATGTTGTGCA
      GAGGCCAAGG GTTGCTAGTT CCGCTCAATG TACTAGGGGG TACAACACGT

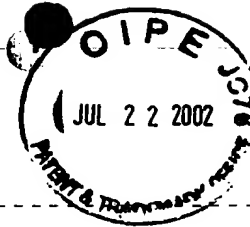
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FIG. 13I

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7601 AAAAAGCGGT TAGCTCCTTC GGTCCTCCGA TCGTTGTCAG AAGTAAGTTG
TTTTTCGCCA ATCGAGGAAG CCAGGAGGCT AGCAACAGTC TTCATTCAAC

7651 GCCGCAGTGT TATCACTCAT GGTTATGGCA GCACTGCATA ATTCTCTTAC
CGGCGTCACA ATAGTGAGTA CCAATACCGT CGTGACGTAT TAAGAGAATG

7701 TGTCATGCCA TCCGTAAGAT GCTTTTCTGT GACTGGTGAG TACTCAACCA
ACAGTACGGT AGGCATTCTA CGAAAAGACA CTGACCACTC ATGAGTTGGT

7751 AGTCATTCTG AGAATAGTGT ATGCGGCGAC CGAGTTGCTC TTGCCCCGGC
TCAGTAAGAC TCTTATCACA TACGCCGCTG GCTCAACGAG AACGGGCCGC

7801 TCAATACGGG ATAATACCGC GCCACATAGC AGAACTTTAA AAGTGCTCAT
AGTTATGCCC TATTATGGCG CGGTGTATCG TCTTGAAATT TTCACGAGTA

7851 CATTGGAAAA CGTTCTTCGG GCGGAAAAC CTCAAGGATC TTACCGCTGT
GTAACCTTTT GCAAGAAGCC CCGCTTTTGA GAGTTCCTAG AATGGCGACA

7901 TGAGATCCAG TTCGATGTAA CCCACTCGTG CACCCAACTG ATCTTCAGCA
ACTCTAGGTC AAGCTACATT GGGTGAGCAC GTGGGTTGAC TAGAAGTCGT

7951 TCTTTTACTT TCACCAGCGT TTCTGGGTGA GCAAAAACAG GAAGGCAAAA
AGAAAATGAA AGTGGTCGCA AAGACCCACT CGTTTTTGTC CTTCCGTTTT

8001 TGCCGCAAAA AAGGGAATAA GGGCGACACG GAAATGTTGA ATACTCATAC
ACGGCGTTTT TTCCCTTATT CCCGCTGTGC CTTTACAACT TATGAGTATG

8051 TCTTCCTTTT TCAATATTAT TGAAGCATTT ATCAGGGTTA TTGTCTCATG
AGAAGGAAAA AGTTATAATA ACTTCGTAAA TAGTCCCAAT AACAGAGTAC

8101 AGCGGATACA TATTTGAATG TATTTAGAAA AATAAACAAA TAGGGGTTCC
TCGCCTATGT ATAAACTTAC ATAAATCTTT TTATTTGTTT ATCCCCAAGG

8151 GCGCACATTT C
CGCGTGTAAG G

FIG. 13J

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